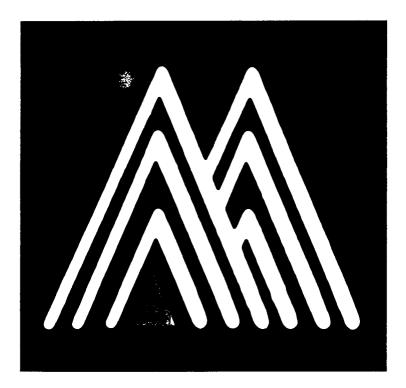
REPORT

UNDERGROUND STORAGE TANK REMOVAL MCDONNELL DOUGLAS CORPORATION

19503 SOUTH NORMANDIE AVENUE TORRANCE, CALIFORNIA 90502

MANESS PROJECT # 40443



Prepared For: McDonnell Douglas Corporation 3855 Lakewood Boulevard Long Beach, California 90802

Prepared By:

Maness Environmental Services, Inc.

1101 East Spring Street

Long Beach, California 90807

August 22, 1994



August 22, 1994

Maness Project # 40443

Fire Department - City of Los Angeles Permit # 3757

Mr. Scott Lattimore

McDonnell Douglas Corporation
19503 South Normandie Avenue
Torrance, California 90502

RE: UNDERGROUND STORAGE TANK REMOVAL CLOSURE REPORT, 19503 S. Normandie Avenue in Torrance, California.

Dear Mr. Lattimore:

Enclosed please find Maness Environmental Services, Inc., (Maness) final report for the closure of two 7,500 gallon and two 500 gallon hydraulic fuel oil, and two 50,000 gallon diesel fuel oil underground storage tanks (USTs) at the McDonnell Douglas Aircraft Facility at the above referenced site.

The work completed consisted of: (1) excavation, removal and disposal of the USTs and associated piping, (2) soil sample collection and analysis from beneath the former UST and spoils pile locations, (3) a site assessment, and (4) a final tank closure report, summarizing the results of all field activities and analytical testing.

Results of laboratory testing indicated that elevated concentrations of total recoverable petroleum hydrocarbons were detected in the spoils piles and in the area of the 500 gallon USTs. Maness completed a site assessment and subsequently removed the impacted soil from the excavation of the 500 gallon UST locations. The impacted soil was disposed at an approved recycling facility.

Maness appreciates the opportunity to provide environmental management services for McDonnell Douglas Corporation. If you have any questions regarding the report or require additional information, please feel free to call.

Sincerely,

Maness Environmental Services, Inc.

Gabriele E. Baader Project Geologist

cc: Los Angeles City Fire Department

Bureau of Fire Prevention

Plan Check Unit

200 North Main Street, Room 920

Los Angeles, California 90012

Attn.: Inspector Cooper

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REPORT

UNDERGROUND STORAGE TANK REMOVAL MCDONNELL DOUGLAS CORPORATION

19503 SOUTH NORMANDIE AVENUE TORRANCE, CALIFORNIA 90502

1.0 INTRODUCTION

This report summarizes tank closure operations recently completed at the McDonnell Douglas Aircraft Facility at the above referenced site.

1.1 PURPOSE AND SCOPE OF WORK

McDonnell Douglas Corporation (Douglas) engaged Maness Environmental Services, Inc., (Maness) to remove and dispose of two 7,500 gallon and two 500 gallon single wall hydraulic fuel oil, and two 50,000 gallon diesel fuel oil underground storage tanks (USTs) and associated piping at the DAC C6 facility in Torrance at the above referenced site. Figure 1 shows the location of the USTs at the facility. In addition, Maness personnel collected soil samples after the UST removal to determine whether contents previously stored in the underground storage tanks have impacted the surrounding subsurface soil.

2.0 FIELD ENGINEERING

2.1 TANK REMOVAL OPERATIONS

Before commencement of work, on behalf of the client, Maness applied for an underground storage tank closure permit at the Los Angeles City Fire Department, Underground Tank Enforcement Unit (LAFD) in Los Angeles, California. Work began as soon as the permit (#3757) was approved by LAFD (Appendix A - UST Removal Permit).

While excavating USTs or the soil in the vicinity of the USTs, the South Coast Air Quality Management District (SCAQMD) requires that the soil be monitored for volatile organic vapors (Rule 1166). Vapor concentrations are monitored to avoid adverse affects on the health and safety of personnel by using the appropriate personnel protective equipment and vapor suppressant methods.

In July 1994, during excavation of soil in the vicinity of the tanks, the soil was monitored by Maness personnel for fuel contamination. A portable organic vapor analyzer (OVA, Foxboro Model 128 GC) was passed over each load of soil removed from the excavation and the surface of the stockpiles in accordance with SCAQMD Rule 1166.

Organic vapor concentrations were not detected during the excavations. However, some discolored soil was detected in both excavations. Subsequently, the impacted soil was separated, stock piled and covered with visqueen. The SCAQMD Rule 1166 monitoring records are included in Appendix B.

On July 5, 1994, Maness properly cleaned and triple rinsed the underground storage tanks per regulatory requirements to the extent necessary for the tank removal as to minimize generating excess rinsate. The USTs were pressure rinsed sufficiently until satisfactory lower explosive limits (LEL) and total oxygen content levels were achieved. Douglas engaged Laidlaw Environmental Services, Inc. to transport the tank rinsate to Chem-Tech Systems, Inc. in Los Angeles, California, for recycling. The hazardous waste manifest is included in Appendix C.

A marine chemist certified the USTs safe for transport. Under the direction of the Los Angeles City Fire Department Inspector, Maness removed the USTs from the excavation and transported the USTs and associated piping to Lopez General Engineering Contractor in Signal Hill, California. The marine chemist certificate and the tank disposal certificate are included in Appendix D and Appendix E, respectively.

2.2 SOIL SAMPLING

Upon completion of tank removal operations, under the direction of the LAFD inspector, Maness personnel collected eleven (11) soil samples each beneath the former USTs and from the spoils piles at the subject site. Figure 1 is a site plan showing the former UST and the soil sample locations. The soil samples were collected from the UST excavation with the bucket of a back hoe tractor. The soil samples collected from the spoils piles adjacent to the excavation were collected using a hand auger sampling system.

The soil samples were collected from the following locations (see Figure 2 - UST and Soil Sample Locations South): One soil sample was collected beneath the center of each of the 500 gallon USTs, at 7 feet below grade (ft bg). A total number of three soil samples were collected beneath the two 7,500 gallon USTs, at 14 ft bg. Three samples were collected from the spoils pile (SP1 through SP3). These USTs previously contained hydraulic oil.

Figure 3 shows the former location of two 50,000 gallon USTs previously containing fuel oil. Three soil samples were collected beneath each of the tanks, at the north end, south end and the center at 16 ft bg. In addition, eight (8) soil samples were collected from the spoils piles located adjacent to the excavation. All tank confirmation samples were collected approximately three feet beneath the bottom of the former UST locations.

The soil samples were packaged in 250 milliliter Qorpak glass jars, sealed with Teflon lined lids and labeled. The samples were delivered to a mobile, on-site, state certified, analytical laboratory for immediate testing. Laboratory results and chain of custody documents are included in Appendix F and Appendix G, respectively. Maness personnel conducted all work under the direction of a California registered geologist.

3.0 SITE GEOLOGY AND HYDROGEOLOGY

The subject site overlies alluvial sediments consisting of medium brown, coarse to fine grained silty sand and light brown to light gray, coarse to fine grained sand. The surrounding topography is consistently flat. The ground surface elevation is approximately 51 feet above mean sea level (MSL).

A review of the Los Angeles County Department of Public Works hydrologic records indicates, that the first groundwater beneath the site is approximately 101 feet below ground surface. Well # 794 C is located south of 190th Street, between Western and Normandie Avenue, on the Douglas property. The monitoring well was last measured on October 15, 1993. Groundwater was not encountered during the excavation.

4.0 LABORATORY TESTING

4.1 METHODS OF ANALYSIS

Laboratory samples were collected, maintained, prepared and analyzed according to <u>Test Methods for Evaluating Solid Waste</u>, (SW-846), Third Edition, Update #2, November 1990. These methods as prescribed by the Environmental Protection Agency (EPA) provide test procedures which determine whether the sample is a hazardous waste within the definition of the Resource Conservation Recovery Act (RCRA).

A state certified, analytical laboratory (Jones Environmental, Inc., Fullerton, California) analyzed the confirmation samples, collected from beneath the former UST and spoils pile locations. The UST and spoils pile confirmation samples were analyzed for total recoverable petroleum hydrocarbons (TRPH) by EPA method 418.1, total petroleum hydrocarbons in accordance with California Department of Health Services (CADOHS) modified EPA method 8015 for diesel, and for volatile aromatic hydrocarbons as Benzene, Toluene, Ethylbenzene and total Xylenes (BTEX) in accordance with EPA test method 8020. In addition, all of the soil samples were analyzed for total lead by EPA method 7420 as required by LAFD.

4.2 RESULTS OF ANALYSIS

The laboratory results of the soil samples collected beneath the former UST locations indicated that the soil beneath the USTs at the site was not significantly impacted by petroleum hydrocarbons. The laboratory results of the UST confirmation samples showed no concentrations above the detection limit or less than LAFD action limit of 100 milligrams per kilogram (mg/kg) of petroleum hydrocarbons. However, one soil sample collected beneath the western 500 gallon UST (Figure 2) showed elevated concentrations of TRPH. Subsequently, the LAFD referred the site to the Plan Check Unit, which supervises remediation at contaminated sites within their jurisdiction (see Section 5.0 Site Assessment).

During the excavation, the soil was separated into "clean" and "contaminated" spoils piles. Results of the laboratory testing for the soil samples collected from the spoils piles indicated that some of the stockpiled soil had been impacted with TRPH. The analytical test results are summarized in Table 1 through Table 3:

Soil Samples collected on July 7, 1994 TABLE

SAMPLE ID	EPA 418.1	CADOHS	EPA	EPA	SAMPLE
	TRPH	8015	8020	7420	LOCATION
		DIESEL	BTEX	LEAD	
T 13 - 7'	7,900		QN	ND	Western 500 g Center
T 14 - 7'	37	4	QN	ND	Eastern 500 g Center
T 11/12 - 14'	50	•	ND	ND	Center 7,500 g USTs
T 11 - 14'	QN	-	ND	ND	Western 7,500 g West
T 12 - 14'	QN	•	ND	ND	East 7,500 g East
SP-1	QN	٠	ND	ND	South Spoils Pile West
SP-2	2,100	•	ND	QN	South Spoils Pile Center
SP-3	4,600	1	ND	ND	South Spoils Pile East
SP - 4	QN	QN	ND	ND	North Spoils Pile East
SP-5	Q	QN	ND	ND	North Spoils Pile
SP - 6	QN	QN	ND	ND	Western Spoils Pile
SP-7	170	QN	ND	ND	Western Spoils Pile
SP - 8	360	QN	ND	ND	Western Spoils Pile
SP - 9	QN	QN	QN	ND	Southw. Spoils Pile East
SP - 10	260	QN	ND	ND	Southw. Spoils Pile Center
SP - 11	QN	QN	ND	ND	Southw. Spoils Pile West
T 20 A - 16'	QN	an	ND	QN	Western 50,000 g South
T 20 B - 16'	QN	QN	ND	ND	Western 50,000 g Center
T 20 C - 16'	QN	QN	ND	ND	Western 50,000 g North
T 19 A - 16'	QN	QN	ND	QN	Eastem 50,000 g South
T 19 B - 16'	35	QN	ND	ND	Eastern 50,000 g Center
T 19 C - 16'	52	QN	ON	ND	Eastern 50,000 g North
Detection Limit	10 mg/kg	10.0 mg/kg	5.0 ug/kg	10.0 mg/kg	

not detected above detection limitmicrogram per kilogramnot analyzed Note: ND ug/kg

mg/kg = milligram per kilogram Samples shown with depth in feet below grade

9

TABLE 2

Soil Samples collected on July 14 and 20, 1994

HA1-9' 700 ND	SAMPLE ID	EPA 418.1	EPA	EPA	SAMPLE
700 520 ND ND ND ND ND ND ND ND ND ND ND ND ND		TRPH	8020 BTEX	7420	LOCATION
520 240 ND ND ND ND ND ND 32 32 ND				LEAD	
520 ND ND ND ND ND ND AD 130 ND ND ND ND	HA 1 - 9'	700	QN	, QN	Center of 500 g UST
240 ND ND ND ND ND 60 60 730 ND	HA 1 - 12'	520	QN	ND	Center of 500 g UST
ND N	HA 1 - 15'	240	QN	ND	Center of 500 g UST
ND ND ND ND S3 32 ND ND ND ND ND ND ND ND ND ND ND ND ND	HA 1 - 20'	QN	QN	ND	Center of 500 g UST
ND ND ND 63 60 60 ND ND ND ND	HA 2 - 5'	QN	QN	ND	West of 500 g UST
ND ND 63 60 60 730 ND	HA 2 - 10'	Q.	ON	ND	West of 500 g UST
ND ND ND 60 60 730 ND	HA 2 - 15'	QN	QN	ND	West of 500 g UST
03 00 60 730 32 ND	HA 3 - 5'	QN	QN	ND	South of 500 g UST
63 ND 60 730 32 ND	HA 3 - 10'	QN	QN	QN	South of 500 g UST
ND 60 730 32 ND	HA 3 - 15'	63	QN	QN	South of 500 g UST
60 730 32 ND	HA 3 - 20'	QV	QN	QN	South of 500 g UST
730 32 ND	HA 4 - 9'	09	ON	QN	East of 500 g UST
32 ND	HA 4 - 12'	730	QN	QN	East of 500 g UST
QN	HA 4 - 15'	32	QN	QN	East of 500 g UST
	HA 4 - 20'	QN	QN	QN	East of 500 g UST
Detection Limit 10 mg/kg 5.0 ug/kg	Detection Limit	10 mg/kg	5.0 ug/kg	10.0 mg/kg	

Note: ND

ND = not detected above detection limit mg/kg = mitligram per kilogram ug/kg = microgram per kilogram Samples shown with depth in feet below grade

TABLE 3

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1994	Į
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SAMPLE ID	EPA 418.1	CADOHS	EPA	SAMPLE
	TRPH	8015	8020 BTEX	LOCATION
		DIESEL		
SP - 12	QN	QN	-	Westwest Alley Pile
SP - 13	130	QN	ND	West Alley Pile
SP - 14	160	QN	ND	East Alley Pile
SP - 15	130	QN	ND	Easteast Alley Pile
SP - 16	330	QN	ND	1. Pile South
SP - 17	160	QN	ND	1. Pile North
SP - 18	550	QN	ND	2. Pile South
SP - 19	140	QN	ND	2. Pile North
SP - 20	84	QN	•	3. Pile South
SP - 21	120	DN	ND	3. Pile North
SP - 22	270	QN	ND	4. Pile South
SP - 23	160	QN	QN	4. Pile North
SP - 24	0	QN	ND	Roll Off Bin
SP - 25	48	•	•	East of SP1 (7500g)
SP - 26	260		ON	West of SP2 (7500g)
Detection Limit	10 mg/kg	10.0 mg/kg	5.0 ug/kg	

= not detected above detection limit Note:

mg/kg = milligram per kilogram ug/kg = microgram per kilogram - = not analyzed Samples shown with depth in feet below grade

5.0 SITE ASSESSMENT

In accordance with City of Los Angeles Fire Department, Plan Check Unit, (LAFD) requirements the following scope of work has been completed. Using a hand advanced auger, we completed a total of four borings in the area of the previously detected soil contamination.

The area of total recoverable petroleum hydrocarbon (TRPH) impacted soil was located beneath the former western 500 gallon UST location, previously containing hydraulic oil. According to LAFD requirements, the borings were placed approximately 5 ft outward and below the contamination. The extent of the plume was determined by placing the hand auger borings in three locations encircling the previously collected sample ID T13-7', and one boring was completed in the center. Figure 3 shows the location of the borings and Table 1 the tank confirmation sample results.

Maness completed the borings to 15 and 20 feet below grade (ft bg). Samples were recovered at approximately five foot intervals. Laboratory results for soil samples collected from the center and east of the UST to 12 ft bg (HA4) and 15 ft bg (HA1) showed concentrations of TRPH above the action limit of 100 mg/kg. Maness collected additional soil samples at 20 ft bg at location HA1 and 15 and 20 ft bg at location HA4. The test results determined that the impacted soil was localized between the bottom of the former UST location at 7 ft bg and 15 ft bg. East of the UST location the impacted soil did not extent beyond 12 ft bg. The soil samples collected west and south of the UST were none detected or less than the LAFD action limit. Table 2 summarizes the test results of the hand auger borings.

Due to the unstable condition of the sidewalls, Maness excavated approximately six cubic yards of TRPH impacted soil to a depth of 20 ft bg beneath the former UST location and stabilized the bottom of the excavation with pea gravel.

Maness personnel removed all of the TRPH impacted soil from the affected area. Subsequently, Douglas instructed Maness to complete a profile of the TRPH impacted spoils piles generated from the excavations. Maness collected and analyzed additional soil samples, to determine whether all of the separated soil was impacted. Figure 2 and Figure 4 show the locations of fifteen (15) soil samples collected from the spoils piles. Table 3 summarizes the results.

Upon approval by the LAFD Plan Check Unit, Maness backfilled and properly compacted the excavation to 95% at optimum moisture content. The backfill material consists of clean cohesive soil, free from organic materials and refuse. The certified compaction report is included in Appendix H.

6.0 CONCLUSIONS

McDonnell Douglas Corporation engaged Maness to perform an underground storage tank closure at the Douglas Aircraft facility at 19503 South Normandie Avenue in Torrance, California. According to all applicable state, county and City of Los Angeles guidelines, Maness removed two 50,000 gallon, two 7,500 gallon and two 500 gallon underground storage tanks, previously storing fuel and hydraulic oil, from the subject site.

The analytical results of soil samples collected beneath the former USTs indicate that the petroleum hydrocarbon impacted subsurface soil has been removed from the excavation. During the excavation, the contaminated soil was placed on separate spoils piles. Analysis of the soil samples collected from the separated piles showed total recoverable petroleum hydrocarbons above the LAFD clean-up criteria in several spoils piles. Upon profiling, a total of 542.49 tons of TRPH impacted soil was transported to TPS Technology, Inc. recycling facility in Adelanto, California. The non-hazardous waste data forms are included in Appendix I.

The tank removal operation was supervised by a California registered geologist. The excavation was backfilled with clean imported soil and certified compacted to 95%.

7.0 LIMITATIONS

Maness Environmental Services, Inc., performs professional services using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar localities. The findings are based primarily upon analytical results provided by an independent laboratory. Interpretations of the subsurface conditions at the site, for the purpose of this investigation, are made from a limited number of available data points (example: soil samples) and subsurface conditions may be different in other locations.

Maness appreciates the opportunity to provide environmental management services for McDonnell Douglas Corporation. If you have any questions regarding the report or require additional information, please feel free to call.

Sincerely,

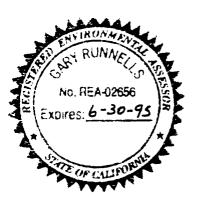
Maness Environmental Services, Inc.

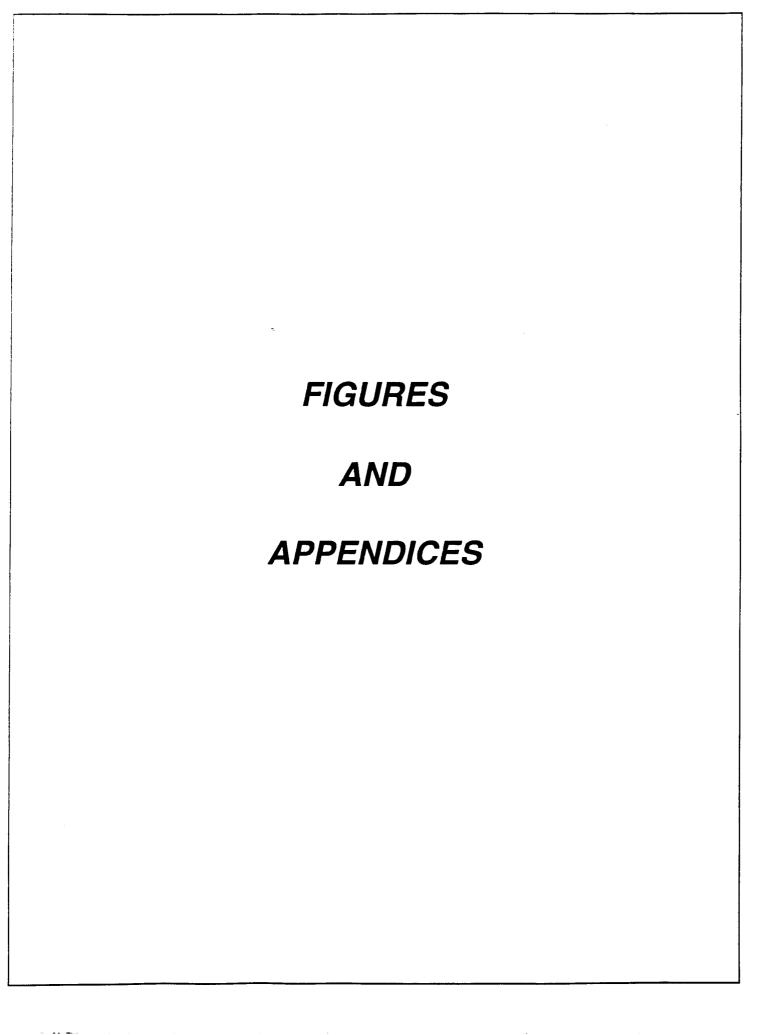
Gabriele E. Baade Project Geologist

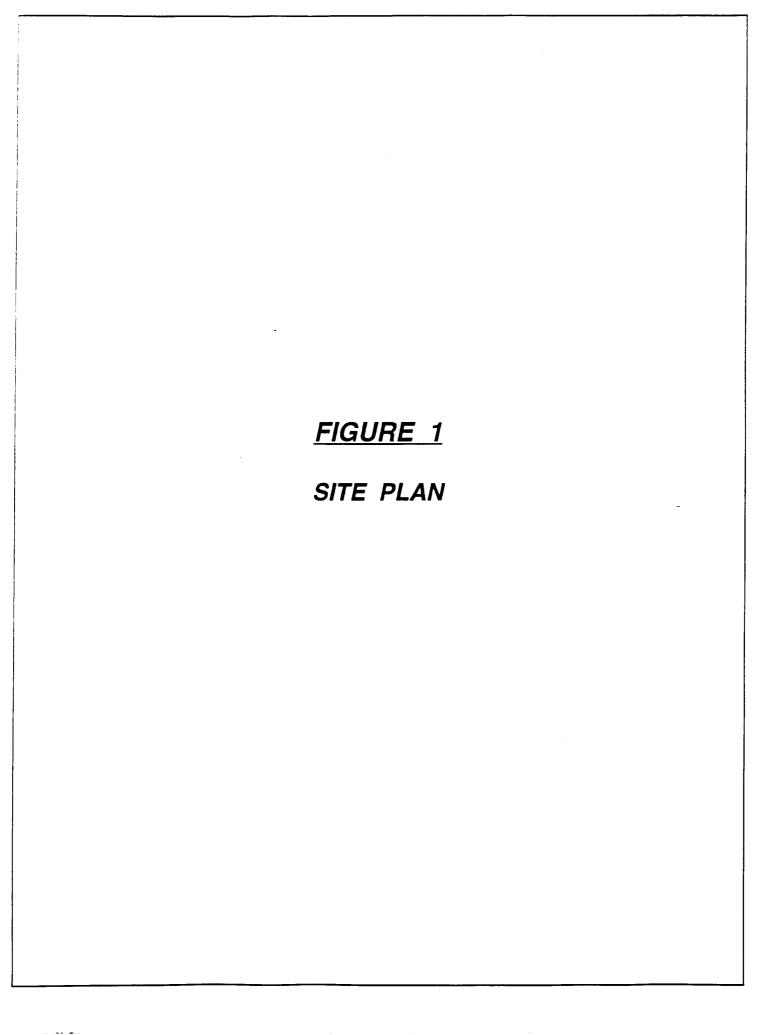
Gary Runnells, R.E.A., R.G.

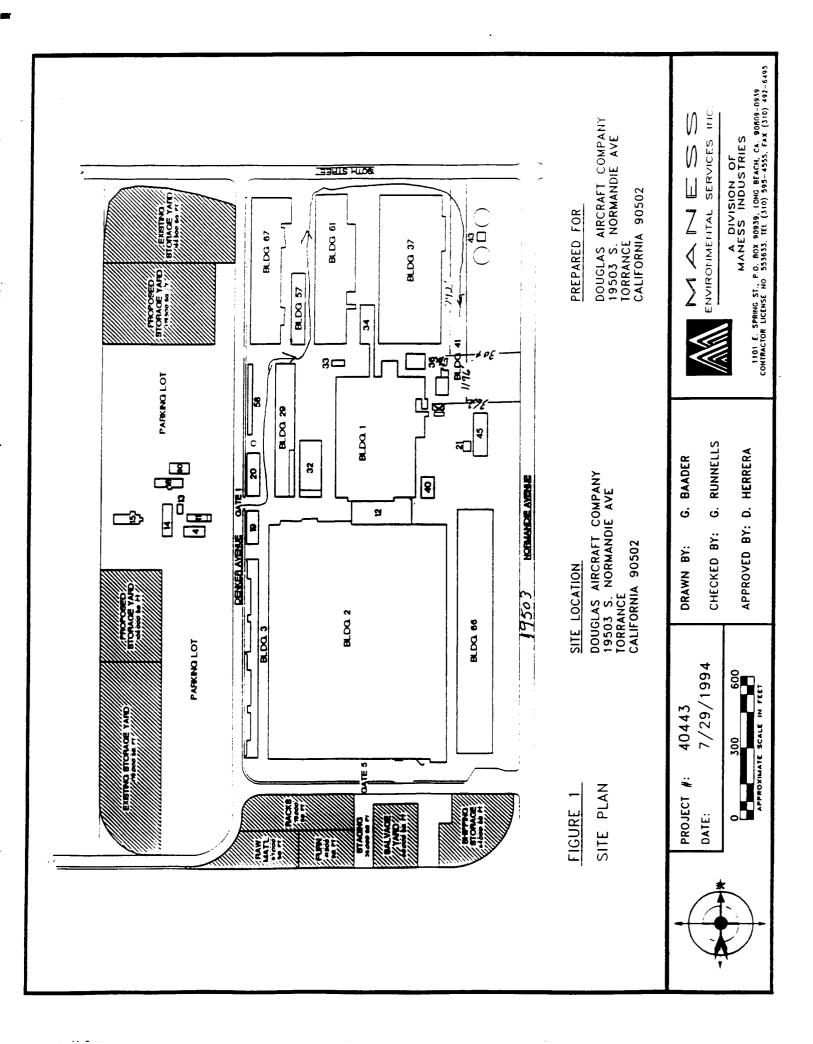
Registered Geologist

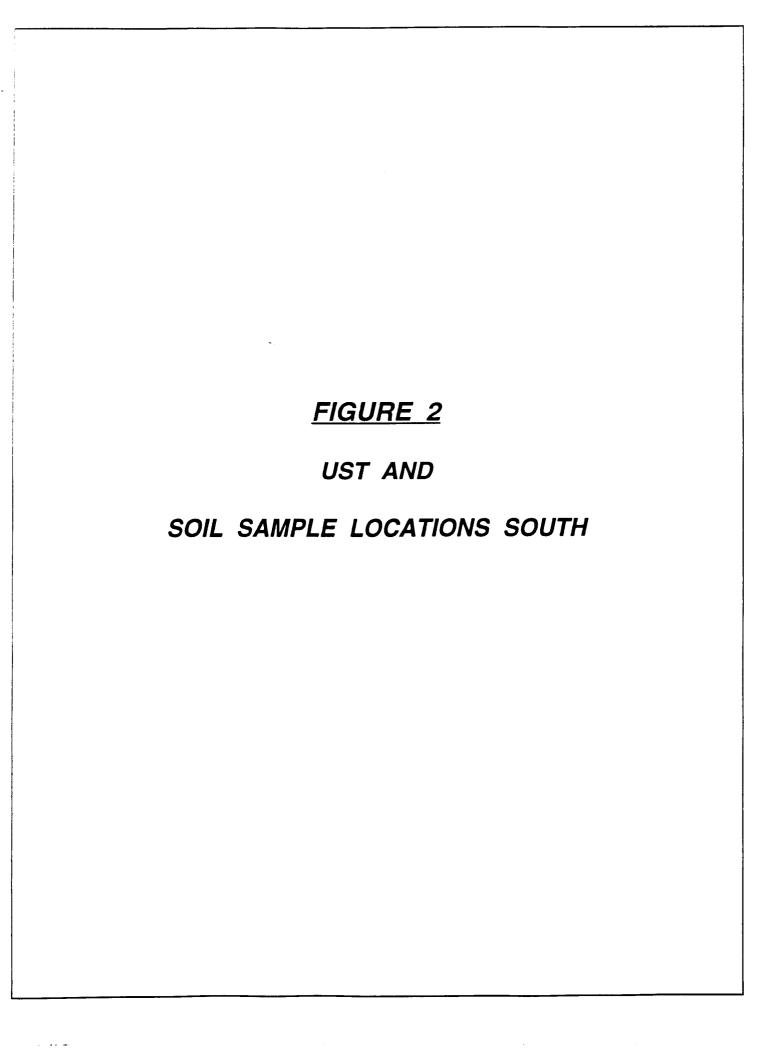


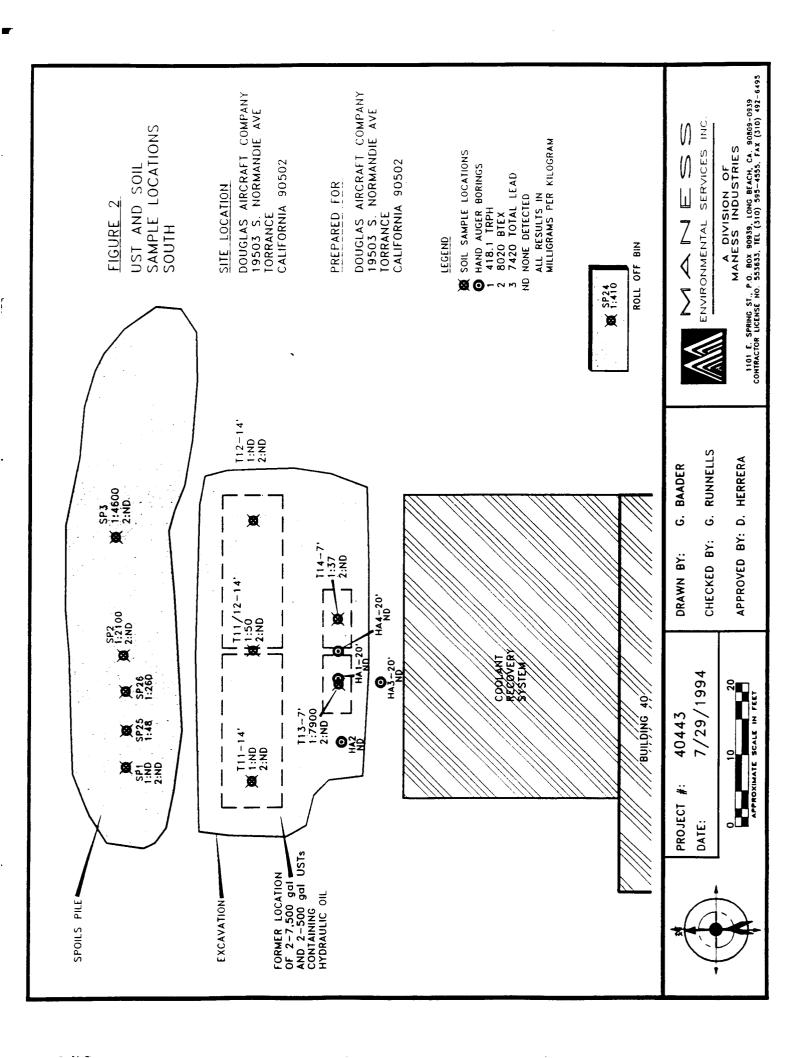


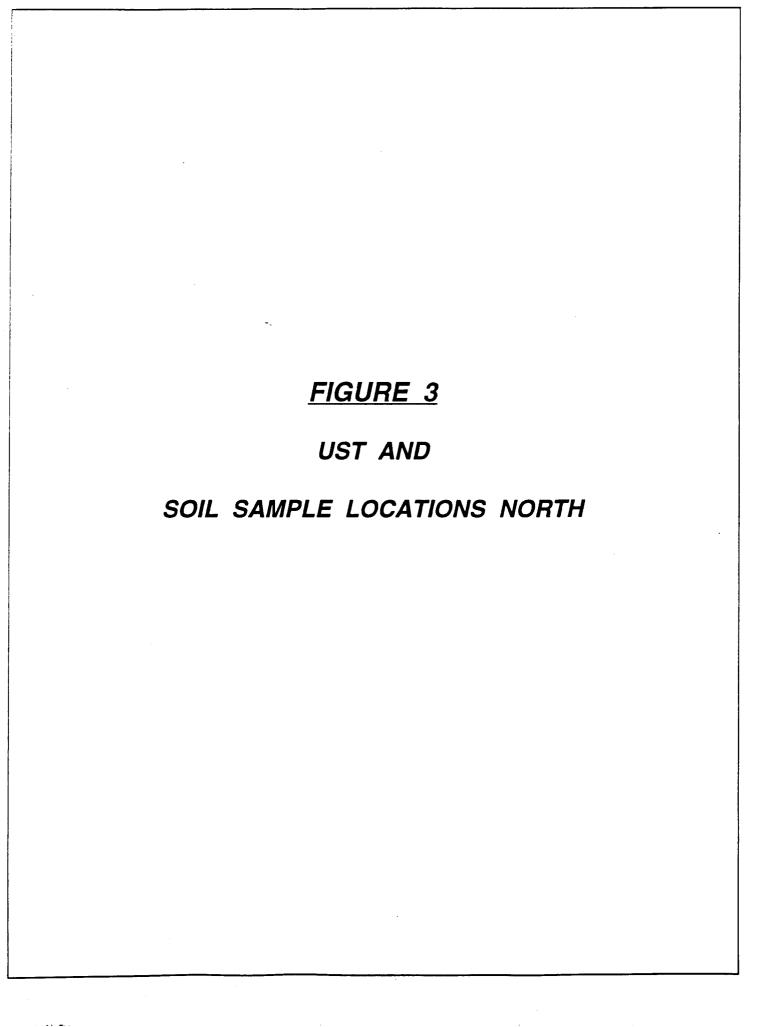


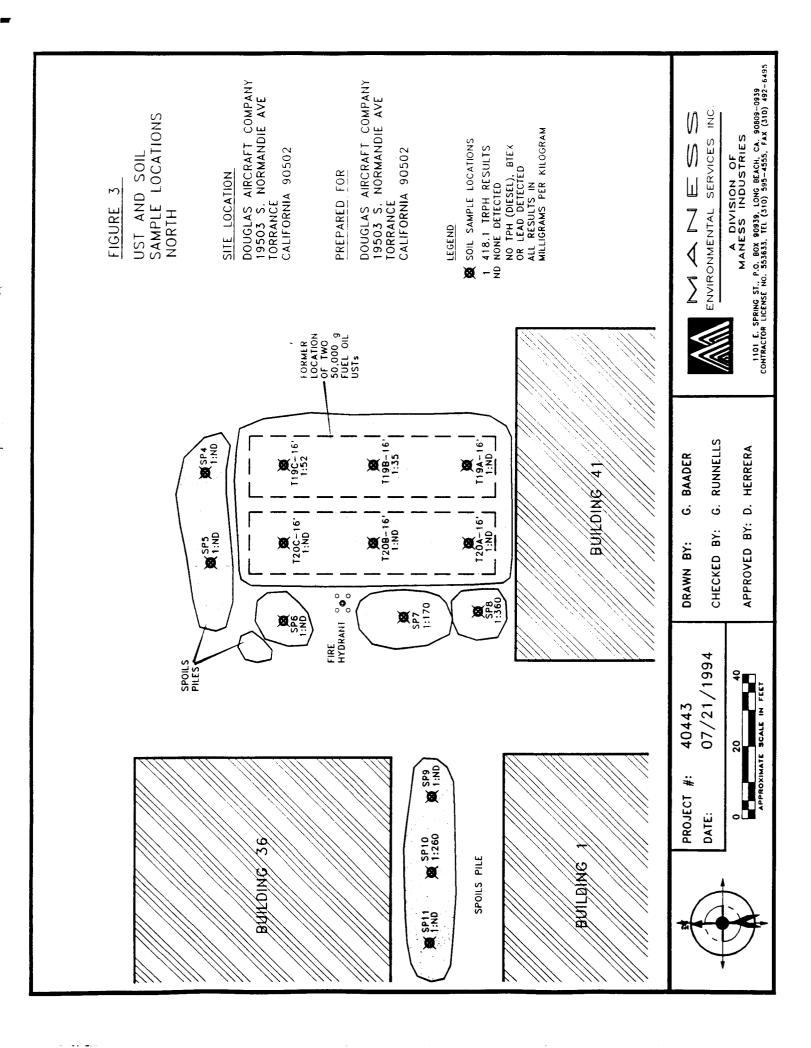


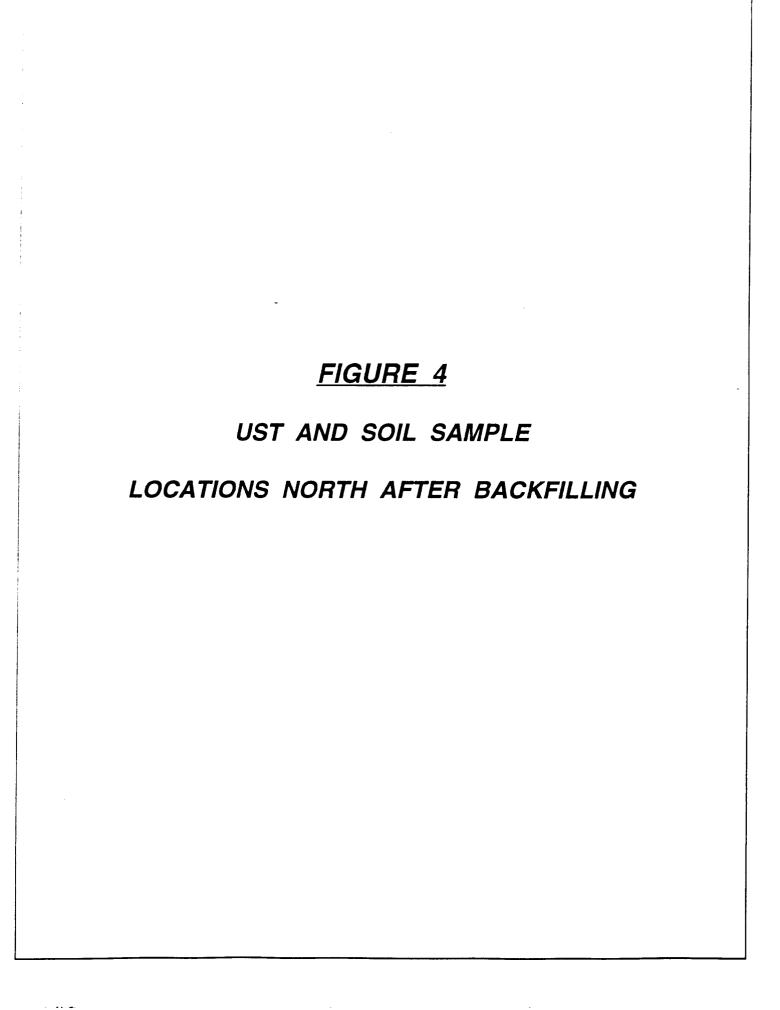


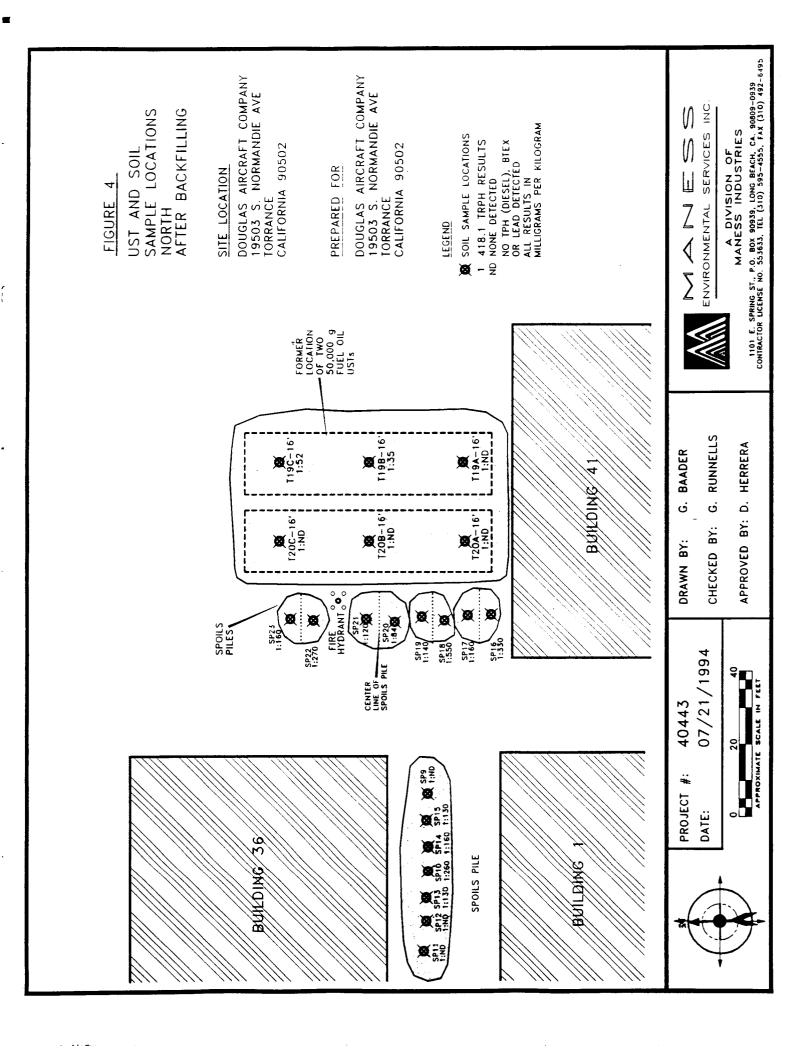


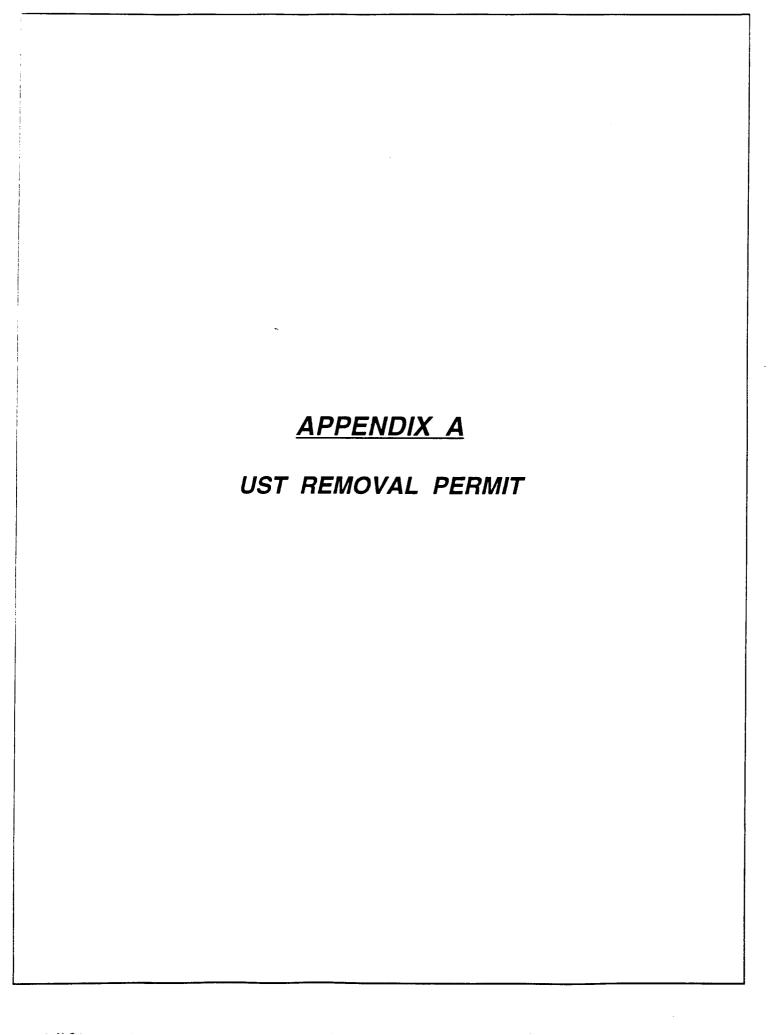






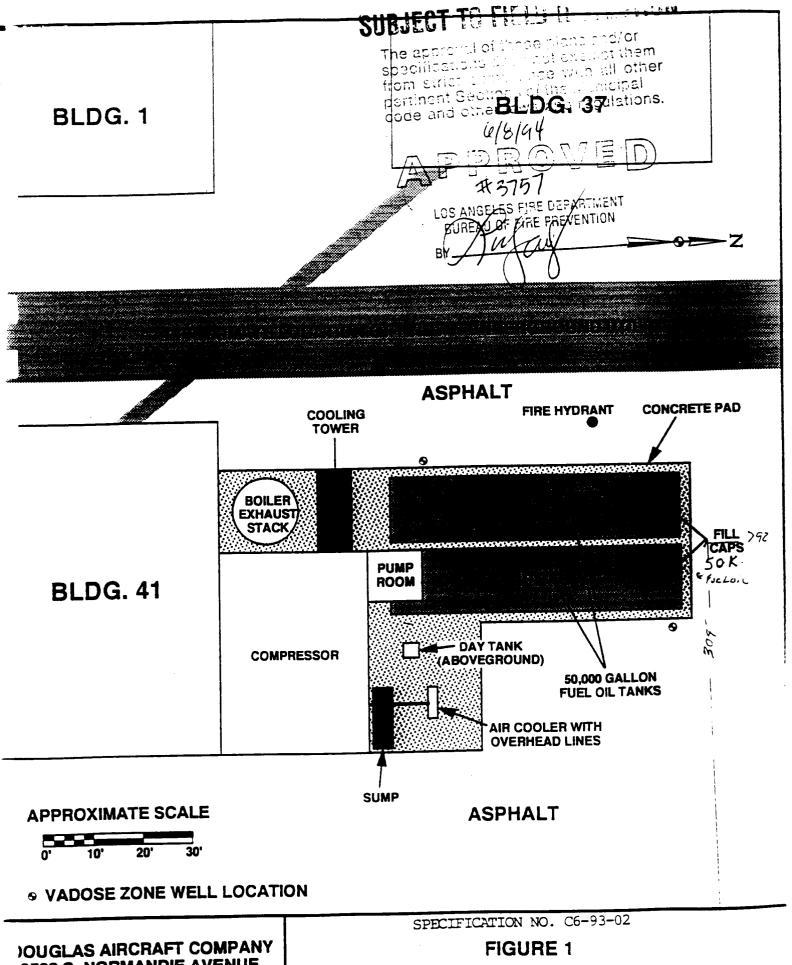






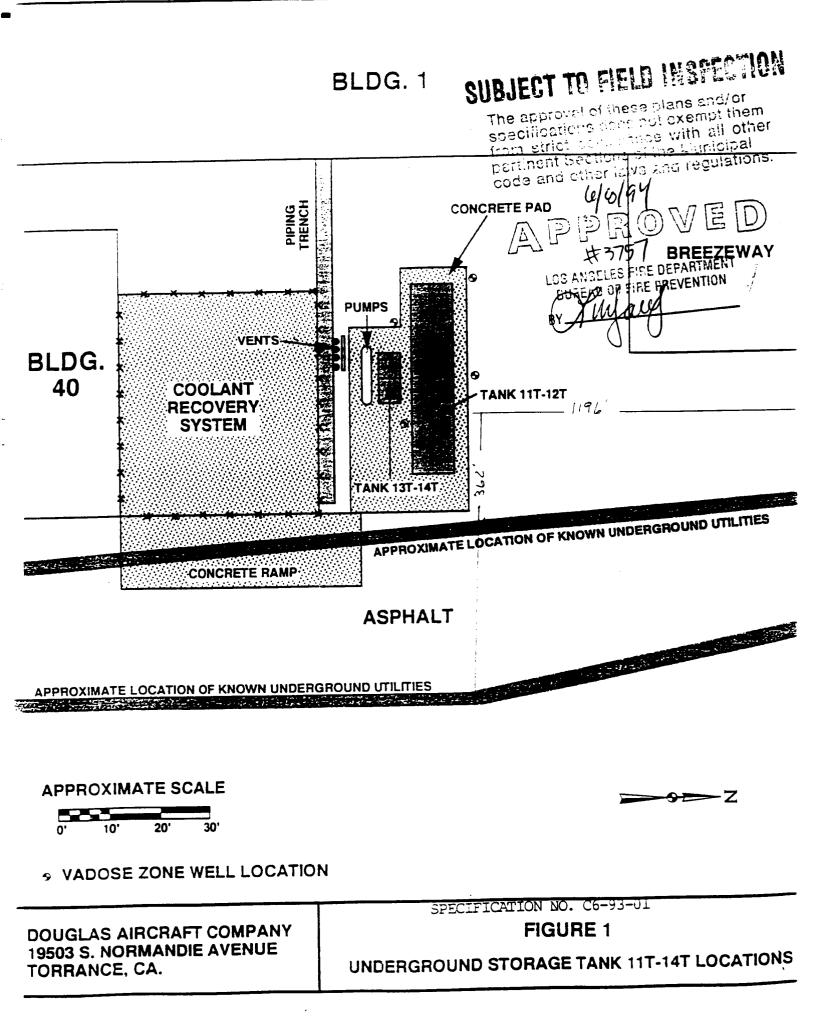
FIRE DEPARTMENT - CITY OF LOS ANGELES	ELES Permit No. 3757
APPLICATION FOR PERMIT - ATMOSPHERIC UNDERGROUNDTANK	
	Date of Application (0/ 5/44
LFT CO. 310-593- 5511	ng Business As Douglas atreraft co.
Addross of Owner 3855 Lakewood Blvd Long Beach	Stato Zip Owner's Phone ca. 90846 310 593 3902
Addross of Sito 19503 S. Normandie Ave Torrance	State Zip Phono at Sito CA. 90502 310 533 7926
Contractor's Company Namo MANESS ENVIRONMENTAL SERVICES	
ring St City Long	State CA. Zip 90807 Gontact dan Fannington
Title Title Phoject Forman	Contractor's 310 595 45
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UGT/S TANK ENTRY/LINING/REPAIR	State Contractor Type/# A B Ilaz 553633
UGT/S ABANDONMENTIN PLACE	City Business# 704659-95
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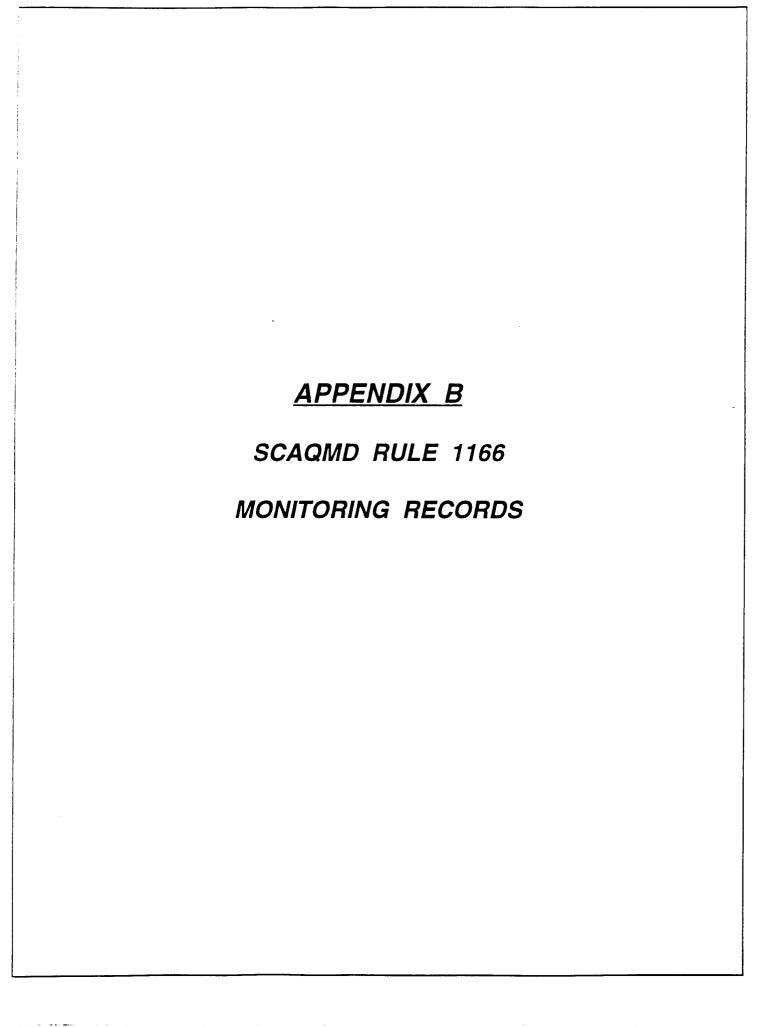
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)OUGLAS AIRCRAFT COMPANY .9503 S. NORMANDIE AVENUE TORRANCE, CA.

UNDERGROUND STORAGE TANK 19T AND 20T LOCATIONS







South Coast AIR QUALITY MANAGEMENT DISTRICT

9150 FLAIR DRIVE, EL MONTE, CA 91731 (818) 572-6200

November 1, 1991

Maness Environmental Services Inc P. O. Box 7917 Long Beach, CA 90807-0917

Attention: David Herrera

(213) 595-4555 APPLICATION NO. 257250 COMPANY ID 69389

RULE 1166 CONTAMINATED SOIL MINIGATION PLAN

Reference is made to your Application (A/N 257250) received on October 22, 1991, for the excavation and handling of VOC-contaminated soil at various locations within the South Coast Air Quality Management District.

Your excavation and mitigation plan has been approved under the provisions of Rule 1166 of the Rules and Regulations of the SCAQMD and is subject to the following conditions.

PLAN CONDITIONS:

PROPERTY
OWNER'S
INITIALS

1. AT LEAST 24 HOURS PRIOR TO COMMENCING EXCAVATION OF UNDERGROUND TANKS WHICH HAVE STORED VOLATILE ORGANIC COMPOUNDS (VOC), THE EXECUTIVE OFFICER SHALL BE NOTIFIED OF ALL INFORMATION ITEMS LISTED IN RULE 1166(c)(1)(A) AND THE NAME OF THE COMPANY PERFORMING THE EXCAVATION.

[]S4+]

IF VOC-CONTAMINATED SOIL IS DETECTED, THE EXECUTIVE OFFICER SHALL BE NOTIFIED AGAIN WITHIN 24 HOURS. BOTH NOTIFICATIONS SHALL BE MADE BY CALLING (818) 572-6195, MONDAY THROUGH FRIDAY, BETWEEN 8 A.M. AND 5 P.M.

2. THIS PLAN IS VALID ONLY FOR THE EXCAVATION AND HANDLING OF A MAXIMUM OF 2000 CUBIC YARDS OF VOCCONTAMINATED SOIL AT EACH SITE. EXCAVATION OF A GREATER AMOUNT REQUIRES SUBMITTAL OF A SITE SPECIFIC RULE 1166 EXCAVATION PLAN.

[<u>//4/</u>]

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3. ALL VCC-CONTAMINATED SOIL SHALL BE DISPOSED, BACKFILLED, OR REMOVED FROM THE SITE WITHIN 40 DAYS AFTER IT HAS BEEN EXCAVATED FROM THE AFFECTED AREAS.

RECORDS OF DISPOSAL OR TREATMENT OF VOC-CONTAMINATED SCIL SHALL BE MAINTAINED FOR A PERIOD OF TWO (2) YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

THE OWNER OR OPERATOR SHALL PREPARE A WRITTEN PLAN [.....] WHICH INCLUDES METHODS TO TREAT THE VOC-CONTAMINATED SOIL, SCHEDULES TO HAUL THE SOIL AWAY, BACKFILL THE SOIL, OR OTHER MEANS OF DISPOSAL. THE PLAN SHALL ALSO INDICATE THAT THE NECESSARY PERMITS HAVE BEEN OBTAINED OR ARE IN THE PROCESS OF BEING OBTAINED. SUCH A PLAN SHALL BE PREPARED NO LATER THAN 5 DAYS AFTER THE COMPLETION OF THE EXCAVATION, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

THE EXCAVATION SHALL BE CONDUCTED IN 50 FT. X 50 FT. OR SMALLER SECTIONS TO MINIMIZE EXPOSURE OF SOIL POTENTIALLY CONTAMINATED WITH VOC.

THE EXCAVATION OPERATOR SHALL HAVE ON SITE AN ORGANIC 6. VAPOR ANALYZER (OVA) USING FLAME IONIZATION OR PHOTO IONIZATION OR OTHER ANALYTICAL METHODS COMPLYING WITH 40 CFR PART 60 APPENDIX A, EPA METHOD 21 SECTION 3.1.1.a., "DETERMINATION OF VOLATILE ORGANIC COMPOUND LEAKS, MONITORING INSTRUMENT SPECIFICATIONS".



7. THE OVA SHALL BE CAPABLE OF BEING CALIBRATED USING HEXANE AT A RANGE OF 0 PARTS PER MILLION BY VOLUME (PPMV) TO 50 PPMV AND AT A DETECTION RANGE OF AT LEAST 30 PPMV TO 1100 PPMV. THE OVA SHALL BE INITIALLY CALIBRATED USING HEXANE BY THE MANUFACTURER AND CALIBRATED AT LEAST ONCE AT THE BEGINNING OF EACH WORKING DAY WITH THE PROCEDURES SPECIFIED BY THE MANUFACTURER.



DURING EXCAVATION, MONITORING SHALL BE CONDUCTED TO 8. MEASURE VOC'S AT A DISTANCE NO MORE THAN 3 INCHES ABOVE THE FRESHLY DUG SOIL BY USING AN ORGANIC VAPOR ANALYZER (OVA) DESCRIBED UNDER CONDITION 7. THIS MEASUREMENT SHALL BE MADE FOR EVERY LOAD OF SOIL AND SHALL BE TAKEN NO LONGER THAN THREE (3) MINUTES AFTER EACH LOAD OF SOIL IS EXCAVATED.



WRITTEN RECORDS OF OVA MONITORING AND CALIBRATIONS REQUIRED ABOVE SHALL BE KEPT IN A FORMAT APPROVED BY THE DISTRICT. A TYPICAL FORMAT IS ATTACHED WITH THIS



PPMV OR MORE WHEN MEASURED WITH AN ORGANIC VAPOR ANALYZER (CALIBRATED USING HEXANE) AT A DISTANCE OF NO MORE THAN THREE INCHES ABOVE EXCAVATED AND EXPOSED



257250

- 11. IF THE GVA MEASUREMENT IS BETWEEN 50 PPMV AND 1000

 - A) THE WORKING AREA SHALL BE IMMEDIATELY SPRAYED WITH WATER, OR COVERED WITH CLEAN SOIL OR TREATED WITH A DISTRICT APPROVED SUPPRESSANT, AND
 - B) EACH VOC-CONTAMINATED LOAD OF SOIL SHALL BE SPRAYED WITH WATER OR TREATED WITH A DISTRICT APPROVED VAPOR SUPPRESSANT AND BE STOCKPILED SEPARATELY.
- IF THE OVA MEASUREMENT EQUALS OR IS GREATER THAN 1000



- A) THE WORKING AREA SHALL BE SPRAYED WITH WATER OR DISTRICT APPROVED VAPOR SUPPRESSANTS OR COVERED WITH AT LEAST 4 INCHES OF CLEAN SOIL, AND
- B) THE SOIL DUG UNDER THE ABOVE CONDITIONS SHALL BE STORED IN DISTRICT APPROVED CONTAINERS, AND
- C) IN LIEU OF CONTAINERS, OTHER MITIGATION MEASURES MAY BE SUBSTITUTED WITH PRIOR WRITTEN APPROVAL OF THE EXECUTIVE OFFICER, IF THE OWNER OR OPERATOR CAN DEMONSTRATE THAT AN ALTERNATIVE MEASURE IS EQUALLY OR MORE EFFECTIVE IN REDUCING VOC EMISSIONS. PRIOR TO THE EXECUTIVE OFFICER'S APPROVAL, THE OWNER OR OPERATOR SHALL SUBMIT A COMPREHENSIVE WRITTEN STUDY WHICH COMPARES QUANTITATIVELY THE ESTIMATED VOC EMISSIONS DIFFERENCE BETWEEN THE ALTERNATIVE MITIGATION MEASURES.
- 13. ALL VOC-CONTAMINATED SOIL SHALL BE STOCKPILED SEPARATELY FROM NON VOC-CONTAMINATED SOIL AND KEPT MOIST, COVERED OR SPRAYED WITH WATER OR WITH A FUME SUPPRESSANT TO PREVENT EMISSIONS OF PARTICULATES OR

14. AT THE END OF EACH WORKING DAY, ALL STOCKPILES SHALL BE COVERED WITH A HEAVY DUTY CONTINUOUS PLASTIC SHEET(S), JOINED AT THE SEAMS, AND SECURELY ANCHORED TO PREVENT ANY EXPOSURE OF SOIL TO THE ATMOSPHERE.

A STOCKPILE SHALL NOT CONTAIN MORE THAN 450 CUBIC

WITHIN 5 DAYS AFTER THE EXCAVATION IS COMPLETED AT EACH SITE, THE WRITTEN RECORDS UNDER CONDITIONS 4 AND 9 SHALL BE SUBMITTED TO THE DISTRICT AT THE FOLLOWING ADDRESS.

> SCAOMD ENFORCEMENT DIV. 9150 FLAIR DR. EL MONTE CA. 91731

17. VOC-CONTAMINATED SOIL SHALL NOT BE SPREAD ON-SITE OR OFF-SITE TO CAUSE THE EVAPORATION OF UNCONTROLLED VOC TO THE ATMOSPHERE.

[گونگر

18. THIS PLAN IS NOT VALID FOR EXCAVATING VOC-CONTAMINATED SOILS AT LANDFILLS OR SITES USED FOR DISPOSAL OF REFUSE OR OTHER TYPES OF WASTE.

19. THIS PLAN DOES NOT ALLOW ANY TREATMENT OF VOC-CONTAMINATED SOIL.

[.....]

20. A COPY OF THIS PLAN SHALL BE PRESENT AT EACH EXCAVATION SITE DURING ALL SOIL HANDLING AND STORAGE PROCESSES.

LEL 1

21. THIS PLAN IS NOT VALID UNTIL THE VERIFICATION BELOW IS SIGNED.

LOCATED AT _____, AM THE OWNER OF THE PROPERTY (SITE OF THE EXCAVATION). I VERIFY THAT I HAVE READ, UNDERSTOOD, AND INITIALED EACH CONDITION OF THIS PLAN.

SIGNED

7/1/9 DATE

Other governmental agencies may require approval before any excavation begins. It shall be the responsibility of the applicant to obtain that approval. The South Coast Air Quality Management District shall not be responsible or liable for any losses because of measures required or taken pursuant to the requirements of this approved 1166 Contaminated Soil Mitigation Plan.

If you have any questions concerning this plan, please call Mr. Arthur Lawler at (818)572-6406.

Very truly yours,

George Rhett

 ${f V}$ Supervising A. Q. Engineer

AL R1166VXE

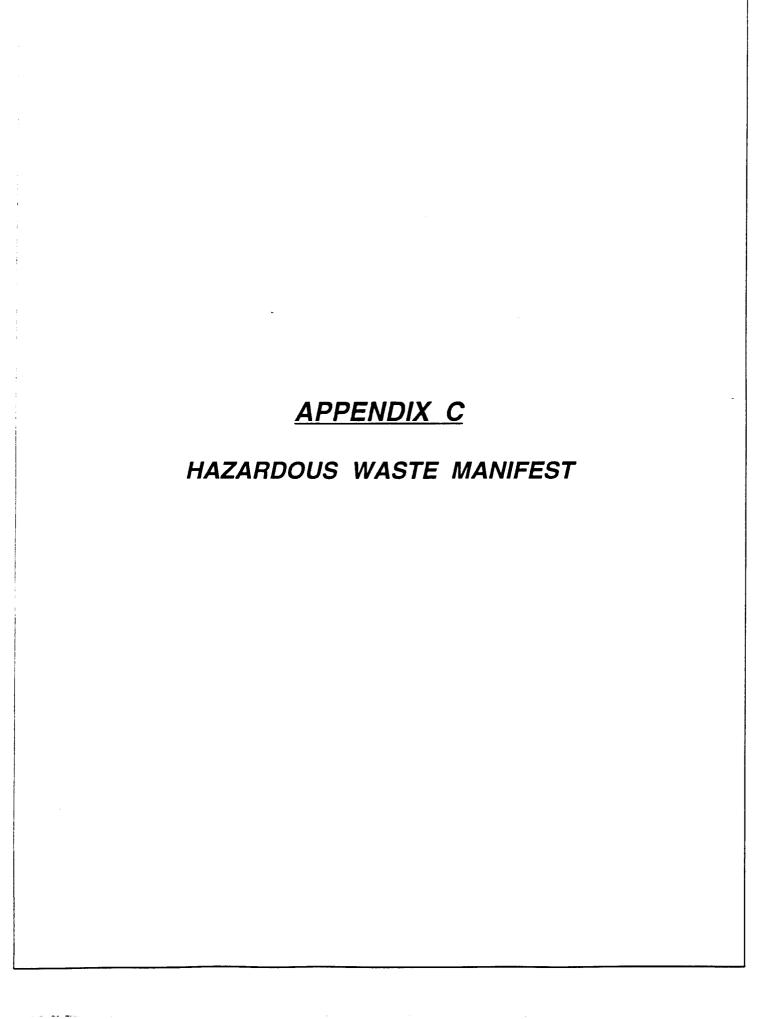
cc: Rudy Eden, Enforcement, Data Management Branch

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1166 SOIL MONITORING RECORDS

DWNER: COCKER DIRCHES ADDRESS: NORMANDA CITY: NORMANDA		23-			
ZIP CODE:_			MODEL	NO:RATION GAS	
TIME	VOC CONCENTR		V)	COMMENTS	
	EACH LOAD AS REMOVED	STOCKPI SURFAC			
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SIGNATURE:				DATE: 7.19¢	

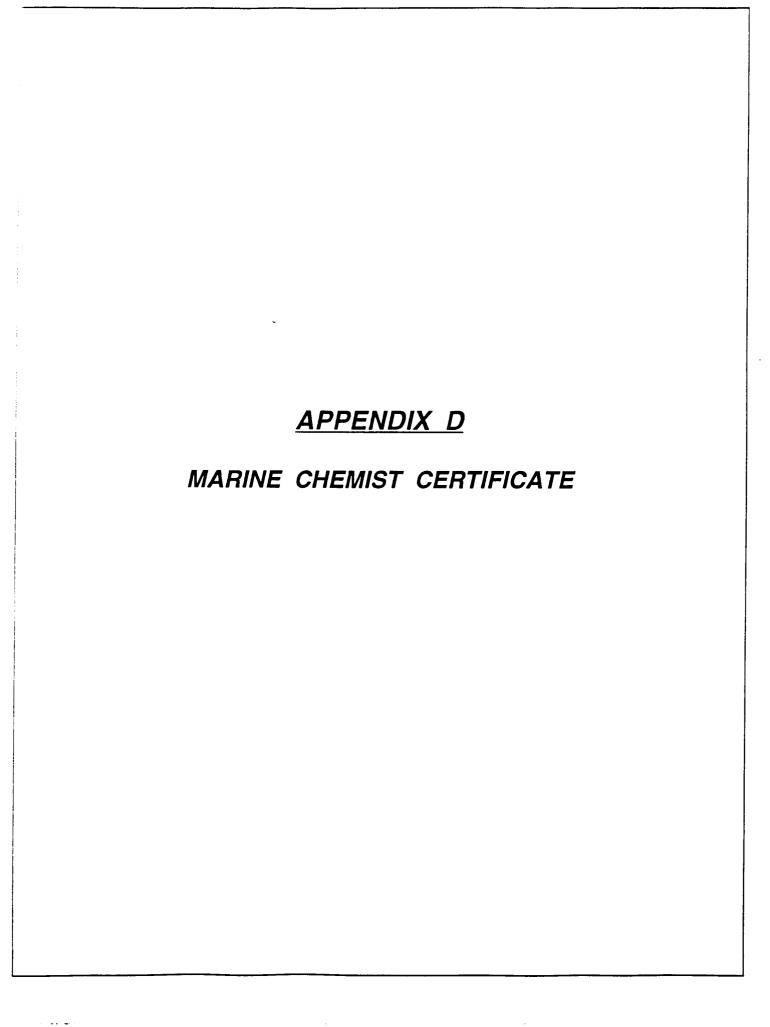
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1186 EXCAVATION PLAN SOIL MONITORING RECORD

A\.\Y	
Douglas Aircraft Vormandie Touvance	Maness Environmental Mike Miller
7/5/94	
TIME STOCKPILE/ PPM SURFACE	VOLATILE ORGANIC COMPOUNDS IN PARTS PER MILLION OVER WORKING SURFACE
9:30 D ppm	
9:45 <u>D PPM</u> 10:00 <u>D PPM</u>	
10:5 0 pm	
10:30 O PPM 10:45 O PPM	
11:00 O PPM	
11:30 SREAK	
11:45 O PPM 12:00 O PPM - ent of ex	
12:15	Cavation
12:30	
13:06	
SIGNED: MILL 7/	5/94

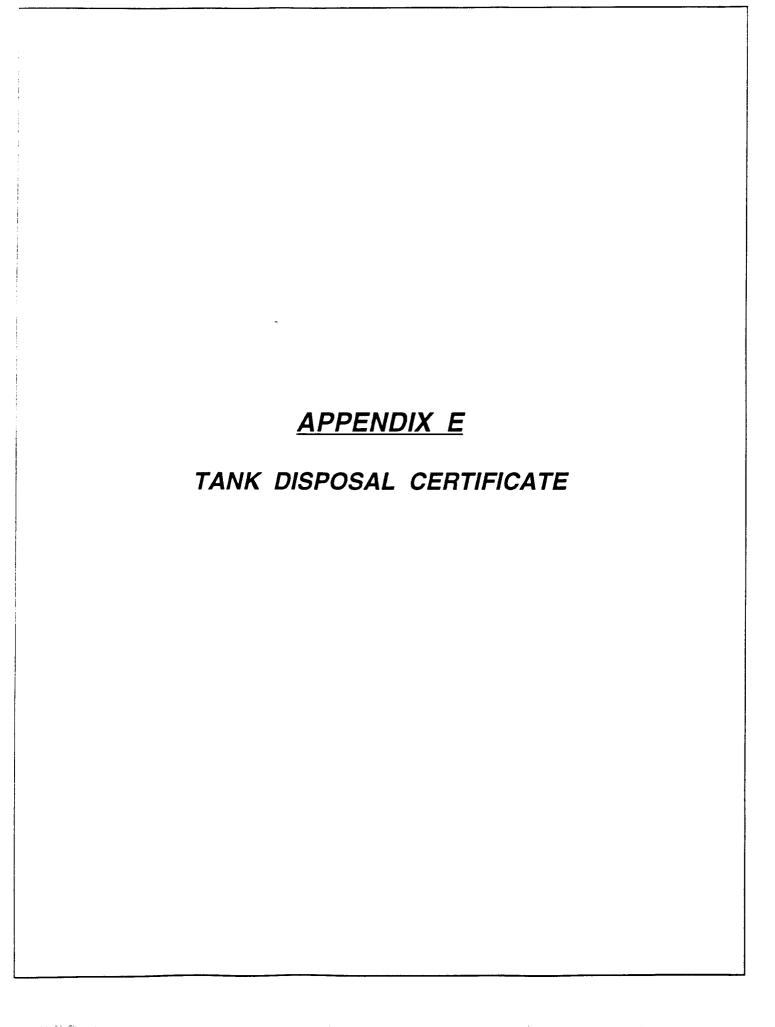


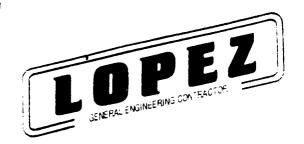
n Andréved OMS No. 3050-0039 (Expires 9-50-94) Seguille or type. Fight designed for use on alles (12-	See Instructions	on back of page	6.	Department of Tests Substances Cont Socramunes, Cultivinia
UNIFORM HAZARDOUS	1. Generator's US EPA ID No. Ma	nifest Document No.	2. Page 1	information in the sheded areas is not required by Pederal law.
3. Generator's Name and Mailing Address	CIADI0 8 6 5 1 0 0 015 1	<u> </u>	of 1	
Douglas Aircraft Company	Attn: Rob Tuell M/B C	0-59		
19503 South Normandie Aver 4. Generator's Phone: (\$10 535-7926		2004		
		3-7231		·
Laidlaw Environmemal Ser	VICOS OT CA, INC. C AD 0 0 0 0 8 3	3.1.2.1		
7. Transporter 2 Company Name	8. US EPA ID Number	<u> </u>		
	• 11111111			
9. Designated Facility Name and Site Addr Chern-Tech Systems, Inc.	ass 10. US EFA ID Number			
3650 East 28th Street				
Los Angeles, CA 90023	CA TO BOOS			
11. US DOT Description (including Proper S	hipping Name, Hazard Class, and ID Number)	No. Type	13. Total Quantity	14. Unit
(Binse water from dies	el tanks that's and hydraulic oil	004		P.
Non-ACRA hazardous	waste liquid	. 001 77	13360	
N . CERTIFICATE OF TREATM	ENTIRECYCLING			
R CUTW.TECH EVERTURE IN	C certifies that the linuid waste received		1,11	
T c. with this manifest will be	treated to standards mandated by the		1.	
	CT and the Los Angeles County Sanitation is. Treatment/recycling is performed under			·
1 permits granted by the Gali	ifornia Department of Tonio Substances ection Agency, Provisions of the Resource		 	
Conservation and Recovery A	ct (RCRA) of 1976, and applicable federal			
and state regulations. The gen	serator's responsibility for this liquid waste			
11a)Rinse water from glocal		Lan and	and the second	A A WAY
Tanks Tient N		14.11		PICTURE A PROPERTY
15. Specifithanding instruction and Addition				
	ERADUMANAGER 424- 9300 (Ch	emtrec). DOT	ERG# 11a	31
		·	·	
	· • • · · · · · · · · · · · · · · · · ·			
	reby declare that the contents of the consignment are full in all respects in proper condition for transport by highw			
If i am a large quartity generator, i	scrilly that I have a program in place to reduce the vo	olume and textility of w	ste generated to th	e degree i have determined to be
threat to human health and the environ	ive selected the practicable mathed of treatment, storage nment, OR, If I am a small quantity generator, I have n			
weste management method that is avail	lable to me and that I can afford. Signature	<u> </u>	14.	Month Day Year
Printed/Typed Name	The total	Z 01 _//	77 I)	07050
Printed/Typed Name Nobert G. Tuell, Jr.	and and the state of the state	D. Jak	, <i>y</i> 1,	The state of the s
Printed/Typed Name	eigt of Motoriels Signoture	D. July	1 1	Margin Day 19709
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Printed/Typed Name Robert G. Tuell, Jr. 17. Transparter 1 Actual/selected of Rec Printed/Typed Name 18. Transparter 2 Actual/selected of Rec Printed/Typed Name 19. Discrepency indication Space	Hunt Signature Signature	South or rounds	- Je	JÖ1710397
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Printed/Typed Name Robert G. Tuell, Jr. 17. Transporter 1 Actual/Valled Printed/Typed Name 18. Transporter 2 Actual/Valled Printed/Typed Name 19. Discrepency Indication Space 19. Discrepency Indication Space 19. Printed/Typed Name 19. Printed/Typed	signature Signature Signature Signature DO NOT WRITE BELOW	THIS LINE.		Month 07 Year
Printed/Typed Name Robert G. Tuell, Jr. 17. Transporter 1 Actual/Valled Printed/Typed Name 18. Transporter 2 Actual/Valled Printed/Typed Name 19. Discrepency Indication Space 19. Discrepency Indication Space 19. Printed/Typed Name 19. Printed/Typed	signature Signature Signature Signature DO NOT WRITE BELOW Yellows	THIS LINE.	PY TO GENERATO	Month 07 Year

BOE-C6-0016372



Thomas D. Beck & Assoc., Inc.		CHEMIST CERTIFICATE
<i>'ba HARBOR TESTING LABOR</i> 24 HOUR PHONE: (310) 492-9646	NATORY 40445	Serial # 6717
MANESS ENV.	DOUGLAS APRICRAFT	6 JALY 99
SEE RELOW	Vessel Owner or Agent UNDERBROUND TANK	19503 S. NOK417NDIE
DIESEL _ast Cargo	Type of Vessel EL, 02, V/MM Tests Performed	Specific Location of Vessel 12/5 //LS Time Survey Completed
6 UNDERBROUND	TANKS TESTE	ED ON LEL
MARKED WITH YE	WOW	20-89 px X/10 /
SPRAY PAINT:		
THE WAY TO THE PARTY OF THE PAR	SIFE	FOR TOT WORK
6717.1; 6717:	7 /27/7.3 \ 70/ 5/1	E FOR WORKERS
	10 ENTE	K NOT TESTED
6717.4, 6717.	5;6717.6 / 100 SPECI	PIC TONCS.
	That I the	VE, PHAN CLEMNED!
	(MNV) (19	VEN PRON OUBINEUI
		/ - 0//
MSA MICHOGRAD	MIBRATED & 0800 Mes	6 JULY 94
	is shares at carely affection the STANDARD SAFETY DESI	CNATIONS assessed to any of the above
spaces, or if in any doubt, immediately s	ic changes adversely affecting the STANDARD SAFETY DESI- top all work and contact the undersigned Marine Chemist.	SIVATIONS assigned to any or the above
accumulation, unless specifically approved in this	lation of valves or closure equipment tending to alter conditions in a Certificate, requires inspection and endorsement or reissue of Cer	tificate for the spaces so affected. Ali lines, vents,
STANDARD SAFETY DESIGNATIONS (partial list,	surtenances shall be considered "not safe" unless otherwise speci paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Su- nent or space so designated: (a) the oxygen content of the atmosphere	bsection 6-3.2)
materials in the atmosphere are within permissible c while maintained as directed on the Marine Chemist	concentrations; and that, (c) the residues are not capable of producing to 's Certificate.	oxic materials under existing atmospheric conditions
ENTER WITH RESTRICTIONS: Means that in any c	npartment or space so designated, the requirements of Safe for Worker compartment or space so designated, entry for work may be made only it	
and time are as specified. SAFE FOR HOT WORK: Means that in the compartment or where external bot work is to be performed; and the	ent so designated: (a) oxygen content of the atmosphere is at least 19.5 po lat, (b) the concentration of flammable materials in the atmosphere is be	ercent by volume, with the exception of inerted spaces low 10 percent of the lower flammable limit; and that,
(c) the residues are not capable of producing a higher	concentration than permitted by (b) above under existing atmospheric conturner, that, (d) all adjacent spaces containing or having contained flan	onditions in the presence of fire, and while maintained nmable or combustible materials have been cleaned
dance with the Marine Chemist's requirements.	actorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine repartment so designated, the requirements of Safe for Hot Work have	
CHEMIST'S ENDORSEMENT. This is to certify that on Vessels and have found the condition of each to	I have personally determined that all spaces in the foregoing list are in	accordance with NFPA 306 Control of Gas Hazards
a undersigned acknowledges receipt of this Certificate under Senatures conditions and irritations under validh it was issued."	ction 2-6 of NFPA 306 and This Certificate is based on conditiess exist seved subject to compliance with all qualifications.	ting at the time the inspection herein set forth was completed and is incations and instructions.
ned Mille Paye	55 7/6/94 Signed WM	un Wand Sqy
Name Company	Date (Aaring Chemist	TOM BECK CONTROLS No.





July 12, 1994

Maness Environmental ATTN: Scott Hultner 1101 E. Spring Street Long Beach, CA 90807-0917

Dear Scott,

SUBJECT: TANK DESTRUCTION CERTIFICATE

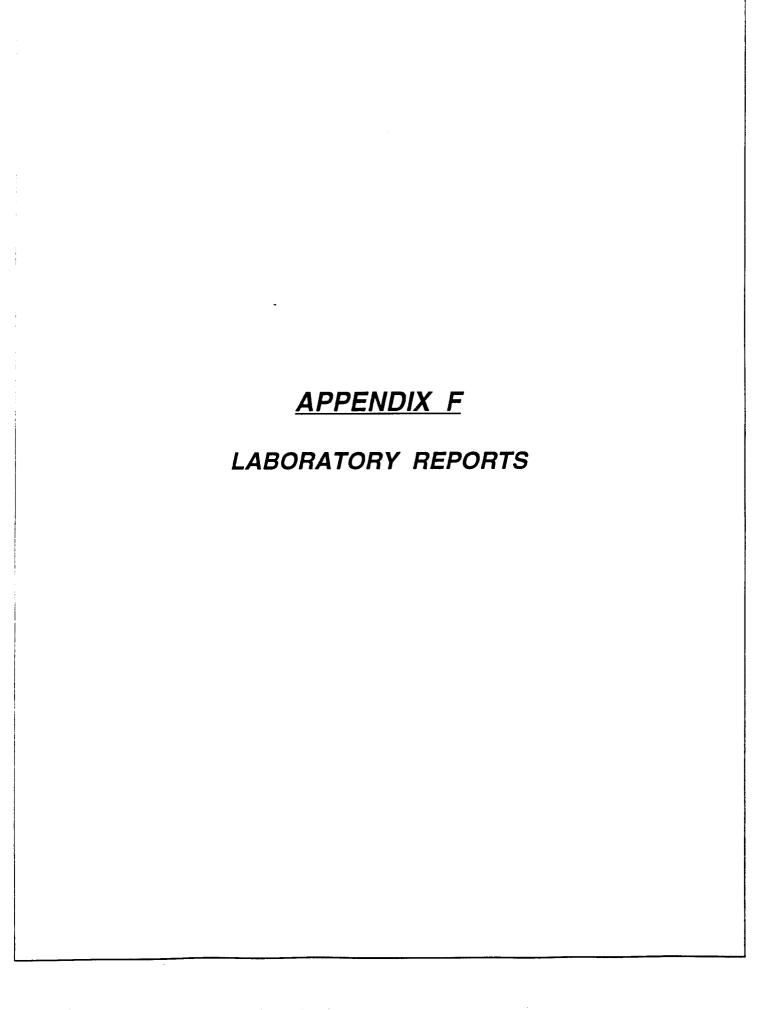
This letter is to certify that tank numbers 6717-1, 6717-2, 6717-3 & 6717-4, 6717-5 & 6717-6 in accordance with Marine Chemist Certificates, Serial Numbers 6717-1, 6717-2, 6717-3 & 6717-4, 6717-5 & 6717-6. Tanks received from McDonnel Douglas, Torrance, California.

Tanks were torched and cut into scrap classification of #1 prepared scrap, the entire tanks were cut into pieces no longer than (5) five feet or wider than 1 1/2 feet in size, therefore rendering this tank into scrap steel and sold as such.

Burner(s)): <u>Davi</u>	David Martinez		Authorized Signature	
	<u>Luis</u>	Vasquez			
	Rafa	el Vasquez		July 12, 1994 Date	<u> </u>
Customer	Name :	<u>Maness Env</u>	ironmer	tal	
Customer	P.O.#:	<u> Verbal - Sc</u>	cott Hu	ltner	-

Not Valid without the corporate seal and signature

2633 E. 28th STREET, STE. 624, SIGNAL HILL, CA 90806 TEL (310) 426-1196 FAX (310) 595-8546



TESTING LABORATORIES

LABORATORY RESULTS

Client: Maness Environmental **Report Date:** 07/08/94 Client Address: 1101 E. Spring Street **JEL Ref. No.:** 1675 Long Beach, CA 90807 Maness Ref. No.: Contact: Scott Hultner Date Sampled: 07/07/94 Date Received: 07/07/94 Project: Douglas Aircraft Date Analyzed: 07/07/94 Physical State: Soil **Project Address:** Torrance, CA

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

		Reporting
	Concentration	Limits
Sample ID	(mg/Kg)	(mg/Kg)
T12 7	7000	10
T13-7	7900	10.
T14-7	37	10.
T11/12-14	50	10.
T11-14	ND	10.
T12-14	ND	10.
SP-1	ND	10.
SP-2	2100	10.
SP-3	4600	10.
SP-4	ND	10.
SP-5	ND	10.
SP-6	ND	10.
SP-7	170	10.
SP-8	360	10.
SP-9	ND	10.
SP-10	260	10.
SP-11	ND	10.
T20A-16	ND	10.
T20B-16	ND	10.
T20C-16	ND	10.
T19A-16	ND	10.
T19B-16	35	10.
T19C-16	52	10.
	ND = Not Detected	

TESTING LABORATORIES

LABORATORY RESULTS

Client:

Maness Environmental

Client Address:

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/08/94

JEL Ref. No.: 1675

Maness Ref. No.:

Contact:

Scott Hultner

Date Sampled: 07/07/94

Date Received: 07/07/94

Date Analyzed: 07/07/94

Project: **Project Address:**

Torrance, CA

Douglas Aircraft

Physical State: Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked:

T19A-16

Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
Diesel	110%	111%	1.5%	65-125%
Sample Spiked:	T19C-16			
Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
Diesel	103%	108%	4.5%	65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

TESTING LABORATORIES

LABORATORY RESULTS

Report Date: 07/08/94 Maness Environmental Client: **JEL Ref. No.:** 1675 1101 E. Spring Street Client Address: Maness Ref. No.: Long Beach, CA 90807 Date Sampled: 07/07/94 Scott Hultner Contact: Date Received: 07/07/94 Date Analyzed: 07/07/94 Project: Douglas Aircraft Physical State: Soil Torrance, CA **Project Address:**

Modified EPA 8015 - Semi-Volatile Hydrocarbons (Diesel)

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
Sample ID	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
SP-4	ND	10.
SP-5	ND	10.
SP-6	ND	10.
SP-7	ND	10.
SP-8	ND	10.
SP-9	ND	10.
SP-10	ND	10.
SP-11	ND	10.
T20A-16	ND	10.
T20B-16	ND	10.
T20C-16	ND	10.
T19A-16	ND	10.
T19B-16	ND	10.
T19C-16	ND	10.
	Not Detected	

TESTING LABORATORIES

LABORATORY RESULTS

Client: Client Address:	Maness Environmental 1101 E. Spring Street Long Beach, CA 90807	Report Date: 07/08/94 JEL Ref. No.: 1675 Maness Ref. No.:
Contact:	Scott Hultner	Date Sampled: 07/07/94
		Date Received: 07/07/94
Project:	Douglas Aircraft	Date Analyzed: 07/07/94
Project Address:	Torrance, CA	Physical State: Soil

EPA 8020 - Volatile Aromatic Hydrocarbons					
Concentration				F	Reporting
	(ug/Kg)			Limits
Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes	(ug/Kg)
T13-7	ND	ND	ND	ND	5.0
T14-7	ND	ND	ND	ND	5.0
T11/12-14	ND	ND	ND	ND	5.0
T11-14	ND	ND	ND	ND	5.0
T12-14	ND	ND	ND	ND	5.0
SP-1	ND	ND	ND	ND	5.0
SP-2	ND	ND	ND	ND	5.0
SP-3	ND	ND	ND	ND	5.0
SP-4	ND	ND	ND	ND	5.0
SP-5	ND	ND	ND	ND	5.0
SP-6	ND	ND	ND	ND	5.0
SP-7	ND	ND	ND	ND	5.0
SP-8	ND	ND	ND	ND	5.0
SP-9	ND	ND	ND	ND	5.0
SP-10	ND	ND	ND	ND	5.0
SP-11	ND	ND	ND	ND	5.0
T20A-16	ND	ND	ND	ND	5.0
T20B-16	ND	ND	ND	ND	5.0
T20C-16	ND	ND	ND	ND	5.0
T19A-16	ND	ND	ND	ND	5.0
T19B-16	ND	ND	ND	ND	5.0
T19C-16	ND	ND	ND	ND	5.0

TESTING LABORATORIES

LABORATORY RESULTS

Client:

Maness Environmental

Client Address:

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/08/94

JEL Ref. No.: 1675 Maness Ref. No.:

Contact:

Scott Hultner

Date Sampled: 07/07/94

Date Received: 07/07/94

Project:

Douglas Aircraft

Date Analyzed: 07/07/94

Project Address:

Torrance, CA

Physical State: Soil

EPA 8020 - Volatile Aromatic Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked:

T19A-16

Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
	-	-		
Toluene	101%	105%	3.2%	65-125%
o-Xylene	100%	105%	4.3%	65-125%
Sample Spiked:	T19C-16			
	MS	MSD		Acceptable
Parameters	Recovery	Recovery	RPD	Range
				_
Toluene	102%	103%	0.7%	65-125%
o-Xylene	102%	102%	0.1%	65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

TESTING LABORATORIES

LABORATORY REPORT

Client:

Maness Environmental

Client Address:

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/08/94

JEL Ref. No.: 1675

Maness Ref. No.:

Contact:

Project:

Scott Hultner

Date Sampled: 07/07/94

Date Received: 07/07/94

Date Analyzed: 07/07/94

Project Address:

Torrance, CA

Douglas Aircraft

Physical State: Soil

22 soil samples were received sealed, chilled, and intact.

22 soil samples were analyzed for volatile aromatic hydrocarbons by EPA 8020, and for total recoverable petroleum hydrocarbons by EPA 418.1.

14 soil samples were analyzed for semi-volatile hydrocarbons by modified 8015 as diesel.

Approval:

Steve Jones.Ph.D.

Laboratory Manager

LABORATORY RESULTS

Client: Jones Environmental Report Date: 07/13/94 Client Address: P. O. Box 5387 FEL Ref. No.: 1579 Fullerton, CA 92635 Client Ref. No.: Maness Environmental Attn: Steve Jones Date Sampled: 07/07/94 Date Received: 07/08/94 Project: Douglas Aircraft Date Extracted: 07/08/94 19503 S. Normandie Project Address: Date Analyzed: 07/12/94 Torrance, CA Physical State: Soil

EPA 7420 - Total Lead by Flame AA

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
Swingle 12	ting/Ass/	imeriei
T11/12-14	ND	10
T11-14	ND	10
T12-14	ND	10
SP-1	ND	10
SP-2	ND	10
SP-3	ND	10
SP-4	ND	10
SP-5	ND	10
SP-6	ND	10
SP-7	ND	10
SP-8	ND	10
SP-9	ND	10
SP-10	ND	10
SP-11	ND	10
T20-A16	ND	10
T20-B16	ND	10
T20-C16	ND	10
T19-A16	ND	10
T19-B16	ND	10
T19-C16	ND	10

LABORATORY RESULTS

Client: Client Address:	Jones Environmental P. O. Box 5387 Fullerton, CA 92635	Report Date: FEL Ref. No.: Client Ref. No.:	07/14/94 1600 Maness
Attn:	Steve Jones	Date Sampled: Date Received:	07/07/92 07/12/94
		Date Extracted:	07/13/94
Project:	Douglas Aircraft	Date Analyzed:	07/13/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
T13-7	ND	10
T14-7	ND	10

QUALITY CONTROL INFORMATION

Client:

Jones Environmental

Report Date: FEL Ref. No.: 07/13/94

Client Address:

P. O. Box 5387 Fullerton, CA 92635

Client Ref. No.:

1579

Maness Environmental

Attn:

Steve Jones

Date Sampled:

07/07/94

Project:

Douglas Aircraft

Date Received:

07/08/94

Project Address:

19503 S. Normandie

Date Extracted: Date Analyzed:

07/08/94 07/12/94

Torrance, CA

Physical State:

Soil

EPA 7420 - Total Lead by Flame AA

LMB

LCS

<u>Parameter</u>

(mg/Kg)

Recovery (%)

Lead

ND

102

Sample Spiked: FEL 1579-18

<u>Parameter</u>	MS <u>Recovery (%)</u>	MSD Recovery (%)	RPD	Acceptability Range (%)	RPD Range (%)
Lead	101	100	0.79	80 - 120	20

LMB = Laboratory Method Blank LCS = Laboratory Control Sample

= Not Detected ND

MS = Matrix Spike

MSD = Matrix Spike Duplicate = Relative Percent Difference RPD

QUALITY CONTROL INFORMATION

Client:

Jones Environmental

Report Date: FEL Ref. No.: 07/14/94

Client Address:

P. O. Box 5387 Fullerton, CA 92635

Client Ref. No.:

1600 Maness

Attn:

Project:

Steve Jones

Date Sampled:

07/07/92

Date Received:

07/12/94

Date Extracted:

07/13/94

Douglas Aircraft

Date Analyzed:

07/13/94

Project Address:

Torrance, CA

Physical State:

Soil

EPA 7420 - Total Lead by Flame AA

LMB

LCS

Parameter

(mg/Kg)

Recovery (%)

Lead

ND

104

Sample Spiked: FEL 1600-1

<u>Parameter</u>	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	RPD Range (%)
Lead	103	101	2.1	80 - 120	20

LMB = Laboratory Method Blank LCS = Laboratory Control Sample

ND = Not Detected

= Matrix Spike MS

= Matrix Spike Duplicate MSD RPD = Relative Percent Difference

Fullerton Environmental Laboratory

LABORATORY REPORT

Client:

Jones Environmental

Client Address:

P. O. Box 5387

Fullerton, CA 92635

Report Date:

07/13/94

FEL Ref. No.:

1579

Client Ref. No.:

Maness Environmental

Attn:

Steve Jones

Project:
Project Address:

Douglas Aircraft

19503 S. Normandie

Torrance, CA

Date Sampled:

07/07/94

Date Received:

07/08/94

Date Analyzed: Physical State:

07/12/94 Soil

ANALYSES REQUESTED

1. EPA 7420 - Total Lead by Flame AA

Approval:

Laboratory Manager Beth Riley

Fullerton

Environmental

Laboratory

LABORATORY REPORT

Client:

Jones Environmental

Client Address:

P. O. Box 5387

Fullerton, CA 92635

runerion, CA 9263

Report Date:

07/14/94

FEL Ref. No.:

1600

Client Ref. No.:

Maness

Attn:

Steve Jones

Date Sampled:

07/07/92

Project:
Project Address:

Douglas Aircraft

Date Received:
Date Analyzed:

07/12/94 07/13/94

Torrance, CA

Physical State:

Soil

ANALYSES REQUESTED

1. EPA 7420 - Total Lead by Flame AA

Approval:

Laboratory Manager Beth Rilev

TESTING LABORATORIES

LABORATORY RESULTS

Client: Client Address:	Maness Environmental 1101 E. Spring Street Long Beach. CA 90807	Report Date: 07/15/94 JEL Ref. No.: 1681 Maness Ref. No.:
Contact:	Scott Hultner	Date Sampled: 07/14/94
Project: Project Address:	Douglas Aircraft Torrançe, CA	Date Received: 07/14/94 Date Analyzed: 07/14/94 Physical State: Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
HA1-15	240	10.
HA2-5	ND	10.
HA2-10	ND	10.
HA2-15	ND	10.
HA3-5	ND	10.
HA3-10	ND	10.
HA3-15	63	10.
HA4-15	32	10.
HA1-9	700	10.
HA1-12	520	10.
HA4-9	60	10.
HA4-12	730	10.
	ND = Not Detected	10.

P.O. Box 5387 • Fullerton, CA 92635 (714) 449-9937 • Fax (714) 449-9685

TESTING LABORATORIES

LABORATORY RESULTS

Client:

Maness Environmental

Client Address:

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/15/94 **JEL Ref. No.:** 1681

Maness Ref. No.:

Contact:

Scott Hultner

Date Sampled: 07/14/94

Project:

Douglas Aircraft

Date Received: 07/14/94 Date Analyzed: 07/14/94

Project Address:

Torrance, CA

Physical State: Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked:

HA2-15

Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
Diesel	105%	97%	7.5%	65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

TESTING LABORATORIES

LABORATORY RESULTS

Client: Maness Environmental **Report Date:** 07/15/94 1101 E. Spring Street Client Address: **JEL Ref. No.:** 1681 Long Beach. CA 90807 Maness Ref. No.: Contact: Scott Hultner Date Sampled: 07/14/94 Date Received: 07/14/94 Douglas Aircraft Project: Date Analyzed: 07/14/94 **Project Address:** Torrance, CA Physical State: Soil

	EPA 8020 -	Volatile Aroi	matic Hydrocark	ons		
		Concentration (ug/Kg)			Reporting Limits	
Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes	(ug/Kg)	
HA1-15	ND	ND	ND	ND	5.0	
HA2-5	ND	ND	ND	ND	5.0	
HA2-10	ND	ND	ND	ND	5.0	
HA2-15	ND	ND	ND	ND	5.0	
HA3-5	ND	ND	ND	ND	5.0	
HA3-10	ND	ND	ND	ND	5.0	
HA3-15	ND	ND	ND	ND	5.0	
HA4-15	ND	ND	ND	ND	5.0	
HA1-9	ND	ND	ND	ND	5.0	
HA1-12	ND	ND	ND	ND	5.0	
HA4-9	ND	ND	ND	ND	5.0	
HA4-12	ND	ND	ND	ND	5.0	

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TESTING LABORATORIES

LABORATORY RESULTS

Client:

Maness Environmental

Client Address:

1101 E. Spring Street

Long Beach, CA 90807

Report Date: 07/15/94 JEL Ref. No.: 1681

Maness Ref. No.:

Contact:

Scott Hultner

Date Sampled: 07/14/94

Project:

Douglas Aircraft

Date Analyzed: 07/14/94

Date Received: 07/14/94

Project Address:

Torrance, CA

Physical State: Soil

EPA 8020 - Volatile Aromatic Hydrocarbons

QUALITY CONTROL INFORMATION

Sample Spiked:

HA4-15

Parameters	MS Recovery	MSD Recovery	RPD	Acceptable Range
Toluene	99%	102%	2.8%	65-125%
o-Xylene	98%	101%	3.4%	65-125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

LABORATORY RESULTS

Client: Client Address:	Jones Environmental P. O. Box 5387 Fullerton, CA 92635	Report Date: FEL Ref. No.: Client Ref. No.:	07/19/94 1618 JEL 1681/Maness
Attn:	Steve Jones	Date Sampled:	07/14/94
		Date Received:	07/15/94
D		Date Extracted:	07/18/94
•	-	Date Analyzed:	07/18/94
Project Address:	Torrance, CA	Physical State:	Soil
Project: Project Address:	Douglas Aircraft Torrance, CA	Date Received: Date Extracted: Date Analyzed:	07/15/94 07/18/94 07/18/94

EPA 7420 - Total Lead by Flame AA

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
HA 1-15	ND	10
HA 2-5	ND	10
HA 2-10	ND	10
HA 2-15	ND	10
HA 3-5	ND	10
HA 3-10	ND	10
HA 3-15	ND	10
HA 4-15	ND	10
HA 1-9	ND	10
HA 1-12	ND	10
HA 4-9	ND	10
HA 4-12	ND	10

QUALITY CONTROL INFORMATION

Client:

Jones Environmental

Report Date:

07/19/94

Client Address:

Project Address:

P. O. Box 5387 Fullerton, CA 92635

FEL Ref. No.: Client Ref. No.:

1618 JEL 1681/Maness

Attn:

Project:

Steve Jones

Date Sampled:

07/14/94

Date Received:

07/15/94

Douglas Aircraft Torrance, CA

Date Extracted: Date Analyzed:

07/18/94

07/18/94

Physical State:

Soil

EPA 7420 - Total Lead by Flame AA

LMB

LCS

Parameter

(mg/Kg)

Recovery (%)

Lead

ND

112

Sample Spiked: FEL 1611-2

<u>Parameter</u>	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	RPD Range (%)
Lead	113	111	1.79	80 - 120	20

LMB = Laboratory Method Blank LCS = Laboratory Control Sample

ND = Not Detected

MS = Matrix Spike

MSD = Matrix Spike Duplicate RPD = Relative Percent Difference

BOE-C6-0016395

TESTING LABORATORIES

LABORATORY REPORT

Client:

Maness Environmental

Client Address:

1101 E. Spring Street

Long Beach. CA 90807

Report Date: 07/15/94

JEL Ref. No.: 1681

Maness Ref. No.: 40443

Contact:

Project:

Scott Hultner

Date Sampled: 07/14/94

Date Received: 07/14/94

Douglas Aircraft **Project Address:** Torrance, CA

Date Analyzed: 07/14/94 Physical State: Soil

12 soil samples were received sealed, chilled, and intact.

12 soil samples were analyzed for volatile aromatic hydrocarbons by EPA 8020, and for total recoverable petroleum hydrocarbons by EPA 418.1.

Approval:

Steve Jones, Ph.D. Laboratory Manager

Fullerton Environmental

Laboratory

LABORATORY REPORT

Client:

Jones Environmental

Client Address:

P. O. Box 5387

Fullerton, CA 92635

Report Date:

07/19/94 1618

FEL Ref. No.: Client Ref. No.:

JEL 1681/Maness

Attn:

Steve Jones

Date Sampled:

07/14/94

Project:

Douglas Aircraft

Date Received:
Date Analyzed:

07/15/94 07/18/94

Project Address:

Torrance, CA

Physical State:

Soil

ANALYSES REQUESTED

1. EPA 7420 - Total Lead by Flame AA

Approval:

Laboratory Manager Beth Riley

TESTING LABORATORIES

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client: Client Address:

Maness Environmental P.O. Box 90939

Long Beach, CA 90809

Report Date: JEL Ref. No.: 07/21/94

Client Ref. No.:

16**8**7 40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Project:

Douglas Aircraft

Date Received: Date Analyzed:

07/20/94 07/20-21/94

Project Address:

Torrence, CA

Physical State:

Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
SP12	ND	10
SP13	130	10
SP14	160	10
SP15	130	10
SP16	330	10
SP17	160	10
SP18	550	10
SP19	140	10
SP20	84	10
SP21	120	10
SP22	270	10
SP23	160	10
SP25	48	10
SP26	260	10
HA4-20	ND	10
HA1-20	ND	10
HA3-20	ND	10

TESTING LABORATORIES

JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:

Maness Environmental

Report Date:

07/21/94

Client Address:

P.O. Box 90939

JEL Ref. No.:

1687

Long Beach. CA 90809

Client Ref. No.:

40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Project:

Douglas Aircraft

Date Received:

07/20/94 07/20-21/94

Project Address:

Torrence, CA

Date Analyzed:

Physical State:

Soil

EPA 418.1 - Total Recoverable Petroleum Hydrocarbons

Sample Spiked: HA1-20

Parameter	MS <u>Recovery</u>	MSD <u>Recovery</u>	RPD	Acceptability Range
Diesel	98%	100%	1.6%	65 - 125%

MS = Matrix Spike

MSD = Matrix Spike Duplicate RPD = Relative Percent Difference

TESTING LABORATORIES

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client: Client Address: Maness Environmental

P.O. Box 90939

Long Beach. CA 90809

Report Date:

JEL Ref. No.:

07/21/94

1687

Client Ref. No.:

40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Project:

Douglas Aircraft

Date Received: Date Analyzed: 07/20/94

07/20-21/94

Project Address:

Torrence, CA

Physical State:

Soil

Modified EPA 8015 - Semi-Volatile Hydrocarbons (Diesel)

Sample ID	Concentration (mg/Kg)
SP12	ND
SP13	ND
SP14	ND
SP15	ND
SP16	ND
SP17	ND
SP18	ND
SP19	ND
SP20	ND
SP21	ND
SP22	ND
SP23	ND
SP24	ND

Reporting Limits (mg/Kg)				
10.				
10.				
10.				
10.				
10.				
10.				
10.				
10.				
10.				
10.				
10.				
10.				
10.				

ND

TESTING LABORATORIES

JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:

Maness Environmental

Client Address:

P.O. Box 90939

Long Beach. CA 90809

Report Date:

JEL Ref. No.:

Client Ref. No.:

07/21/94

1687 40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Project:

Douglas Aircraft

Date Received:
Date Analyzed:

07/20/94 07/20-21/94

Project Address:

Torrence, CA

Physical State:

Soil

Modified EPA 8015 - Semi-Volatile Hydrocarbons (Diesel)

Sample Spiked: HA4-20

<u>Parameter</u>	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
Diesel	116%	111%	4.8%	65 - 125

MS = Matrix Spike

MSD = Matrix Spike Duplicate RPD = Relative Percent Difference

TESTING LABORATORIES

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:

Maness Environmental

Report Date:

07/21/94

Client Address:

P.O. Box 90939

JEL Ref. No.:

1687

Long Beach, CA 90809

Client Ref. No.:

40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Project:

Date Received:

07/20/94

Project Address:

Douglas Aircraft Torrence, CA

Date Analyzed:

07/20-21/94

Physical State:

Soil

EPA 8020 - Volatile Aromatic Hydrocarbons

Concentration (ug/Kg)					Reporting Limits
Sample ID	<u>Benzene</u>	Toluene	Ethylbenzene	Xylenes	(ug/Kg)
SP-13	ND	ND	ND	ND	5.0
SP-14	ND	ND	ND	ND	5.0
SP-15	ND	ND	ND	ND	5.0
SP-16	ND	ND	ND	ND	5.0
SP-17	ND	ND	ND	ND	5.0
SP-18	ND	ND	ND	ND	5.0
SP-19	ND	ND	ND	ND	5.0
SP-21	ND	ND	ND	ND	5.0
SP-22	ND	ND	ND	ND	5.0
SP-23	ND	ND	ND	ND	5.0
SP-24	ND	ND	ND	ND	5.0
SP-26	ND	ND	ND	ND	5.0
HA4-20	ND	ND	ND	ND	5.0
HA1-20	ND	ND	ND	ND	5.0
HA3-20	ND	ND	ND	ND	5.0

TESTING LABORATORIES

JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client: Client Address: Maness Environmental

P.O. Box 90939

Long Beach, CA 90809

Report Date:

JEL Ref. No.:

07/21/94

Client Ref. No.:

1687 40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Project:

Douglas Aircraft

Date Received: Date Analyzed: 07/20/94 07/20-21/94

Physical State:

Soil

Project Address:

Torrence, CA

EPA 8020 - Volatile Aromatic Hydrocarbons

Sample Spiked: HA4-20

<u>Parameter</u>	MS <u>Recovery (%)</u>	MSD Recovery (%)	RPD	Acceptability Range (%)	
Toluene	97%	100%	3.1%	65 - 125	
o-Xylene	95%	100%	5.3%	65 - 125	

MS = Matrix Spike

MSD = Matrix Spike Duplicate RPD = Relative Percent Difference

TESTING LABORATORIES

JONES ENVIRONMENTAL

LABORATORY REPORT

Client:

Maness Environmental

Report Date:

07/21/94

Client Address:

P.O. Box 90939

JEL Ref. No.:

1687

Long Beach, CA 90809

Client Ref. No.:

40443

Attn:

Attn: Scott Hultner

Date Sampled:

07/20/94

Project:

Douglas Aircraft

Date Received:

07/20/94

Date Analyzed:

07/20-21/94

Project Address:

Torrence, CA

Physical State:

Soil

ANALYSES REQUESTED

- 1. EPA 418.1 - Total Recoverable Petroleum Hydrocarbons
- 2. EPA 8020 - Volatile Aromatic Hydrocarbons
- 3. Mod 8015 Diesel - Semi-Volatile Hydrocarbons

Approval:

Steve Jones, Ph.D. Laboratory Manager

LABORATORY RESULTS

Client: Client Address:	Jones Environmental P. O. Box 5387 Fullerton, CA 92635	Report Date: FEL Ref. No.: Client Ref. No.:	07/27/94 1644 40443/Maness
Attn:	Steve Jones	Date Sampled: Date Received:	07/20/94 07/24/94
		Date Extracted:	07/22/94
Project:	Douglas Aircraft	Date Analyzed:	07/26/94
Project Address:	Torrance, CA	Physical State:	Soil

EPA 7420 - Total Lead by Flame AA

Sample ID	Concentration (mg/Kg)	Reporting Limits (mg/Kg)
HA 1-20	ND	10
HA 4-20	ND	10
HA 3-20	ND	10

QUALITY CONTROL INFORMATION

Client:

Jones Environmental

Client Address:

P. O. Box 5387

Fullerton, CA 92635

Report Date:

07/27/94

FEL Ref. No.:

1644

Client Ref. No.:

40443/Maness

Attn:

Steve Jones

Date Sampled:

07/20/94

Date Received: Date Extracted: 07/24/94

Date Analyzed:

07/22/94

Project: Project Address:

Douglas Aircraft Torrance, CA

Physical State:

07/26/94 Soil

EPA 7420 - Total Lead by Flame AA

Parameter

LMB

LCS

(mg/Kg)

Recovery (%)

Lead

ND

106

Sample Spiked: FEL 1644-1

<u>Parameter</u>	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	RPD Range (%)
Lead	104	103	0.39	80 - 120	20

LMB = Laboratory Method Blank LCS = Laboratory Control Sample

ND = Not Detected

= Matrix Spike MS

MSD = Matrix Spike Duplicate = Relative Percent Difference RPD

Fullerton

Environmental

Laboratory

LABORATORY REPORT

Client:

Jones Environmental

P. O. Box 5387

Fullerton, CA 92635

Report Date: FEL Ref. No.: 07/27/94 1644

Client Ref. No.:

40443/Maness

Attn:

Steve Jones

Date Sampled:

Project:

Date Received:

07/20/94

Douglas Aircraft

Date Analyzed:

07/24/94 07/26/94

Project Address:

Client Address:

Torrance, CA

Physical State:

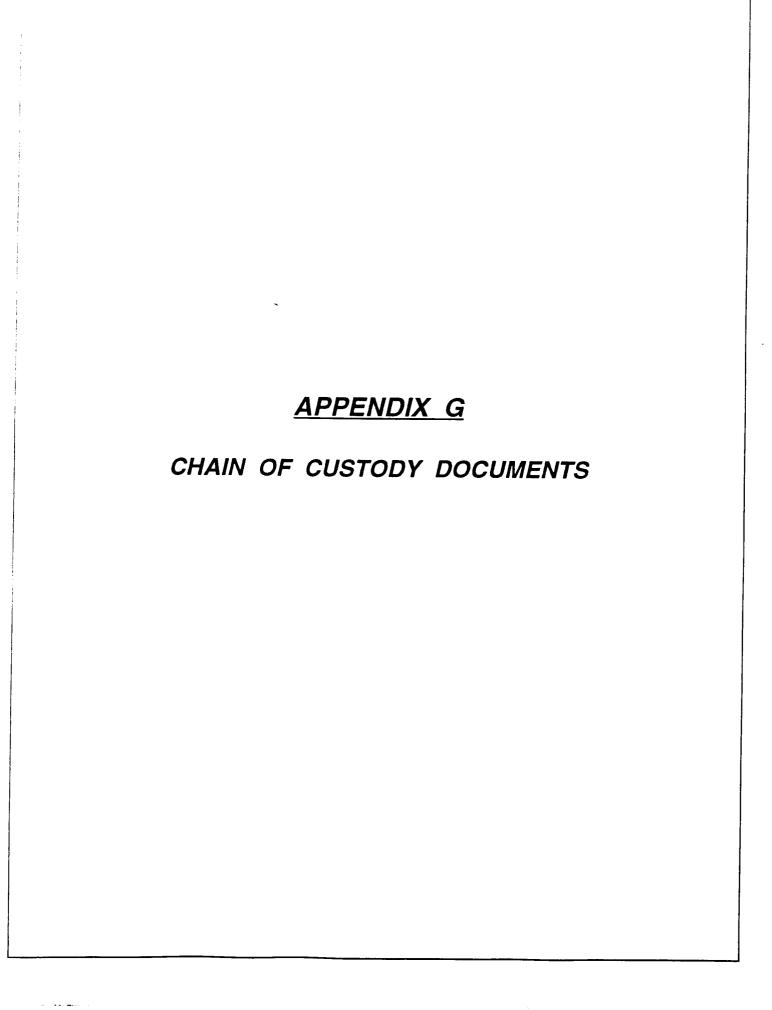
Soil

ANALYSES REQUESTED

EPA 7420 - Total Lead by Flame AA

Approval:

Laboratory Manager Beth Riley



ENVIRONMENTAL
TESTING LABORATORIES

Tel. 714 449-9937 Fax 714 449-9685

.O. t 87 Fullerton, CA 92635

Client Manye C.	#	i			(8)	_	Andreis De	7		JEL Project #
Project Name		77	1		sn	`	Aildiysis hequested	nested		\
BULLAS AMCRAET	Cilent Project #	*			Danby	_		<i>/</i>		1673
	Tura Around Requ	Requested:			'(7s)	///	<u></u>	<u></u>		Page /
1950.3 S. NORMANOIK		Immediate Attention			agpn		<u></u>	<i></i>		ab lies Only
TORRANCE	- Rush	☐ Rush 24-48 Hours ☐ Rush 72-96 Hours		(S) //				378		Sample Condition as Received:
Project Contact	Normal Normal Hab	al le Lab		S NITEN	1/0/5/0°/E	1/2/	/	Contains)		Chilled 🗆 yes 🗀 no Sealed 🗀 yes 🗀 no
Sample 10 Sample Location	Date	Time	Laboratory Sample Number	Sample		5/2		Number		Container/Comments
7-27	17564	10:25		X	×	×				
7-4-7	19/4/2	10:25	1675-002	\ \ \ \ \ \	<u> </u>	X		, ,	Make a company of the	
11/12-14	4/7	1105	1675-001	××	\ \ 	×				
711-14	40/2/2	5011	16.75-00H	X	×	X				
T12-14	2/2/64	11 11	500-527	×	×	×				
50-1	2/2/94)	1625-1016	7	\ X	X		_		
7-18	1/2/64	=	(0.0-SL)	X	×	×				
50-3	1/2/4	1:1	1675-aui	X	×	×				
SP-4	4/2/2	1225		X	×	7				
	10	1220	010-5291	7	X	$\overline{\lambda}$				
■ Heingdished by (Agnature)	V .	Received by (signature)	gnature)	AS	1		Date / 1/94/	0/	Total Numbe	Total Number of Containers
Committee CS	Time 3	Company	ENURONMENTRE	ruci	17.86		Time /2.3	Additional Comments	omments	
Relinquished by (signature)	1	D Received by Lal	• Received by Laboratory (signature)							
Сотрапу	Time	Company					Time			

ENVIRONNIENTAL.
TESTING LABORATORIES

U B 37 Fullerton, CA 92635 Tel 714 449-9937 Fax 714 449-9685

Client	- Bata				,				•
Maries	1,7	75.00			(8)	Analysis Requested	equested	_	Jet Project #
Project Name	Client Project #	4			snoə	/ / /			5/9/
DOLIGICAL MIKCANET					nov		\ \ \	\ \ \	1
	Tura Around	Turn Around Requested:	,		\ \ \(\int\)	\ \ \	<u></u>		ر الم
19503 S. NORMANDIE		Immediate Attention		SUPPIS		\ \ \			se Only
TORKANCE		Hush 72-96 Hours		'(s) 11c	\	250		SJƏU	Sample Condition as Received:
Project Contact	Normal Mebile Lab	nal ile Lab		DS XIJIEM	0	10 10	J/0	OF Contain	Chilled (1) yes (1) no Sealed (1) yes (1) no
Sample ID Sample Location	Date	Time	Laboratory Sample Number	Sample Mark	04 62 08		NUMBEL	Number	Container/Comments
59-6	49/4/2	1215	1675-011	XX	×				
59.7	7/7/64	5/2/ /	1675-012	X X S	× ×				
5P-8	1/1/04	8021 h	-	χ Σ	×				
50-9	49/1/2	0121	1675-014	XXS	×		_		The state of the s
5P-K	49/2/2	1 1205	1675-015	× × ×	X				
11-65	4/1/2	1200	1675-016	5 K X	λ				
T20 A 46	49/2/2	8 1733	1675-017	XXX	× ×				Total Commission of the Commis
720 B16	7/2/04	1233	1675-018	XXS	X		_		
T20C16	49/2/2	98217	K75-019	ك	X				
T19.816	1/2/2	ex 1309	1675-420	XX	X				
quished by (signature) \mathcal{L}) Date 7 / 7 / 7 / 7 / 7	Received by (signature)	ignature)	Par Const	\ \	Date 7/7/9	0/2	Total Numbe	Total Number of Containers
Compa		Company	Tamana and and a	100	191	Time / 22.	Addition	Additional Comments	
Relinquished by (signature)	Date	Received by La	Received by Laboratory (signature)	2/2/1/2	-3///	Date	<u> </u>		
Company	Time	Company				Time			

Chain-Of-Custody Record Chilled 🗆 yes 🗀 no Sealed ☐ yes ☐ no Sample Condition as Received: 5291 JEL Project # Total Number of Containers Container/Comments **Additional Comments** Number of Containers Analysis Requested Ting KNUNGUMENTAL. 1309 1675022 5 X X X X X | X | X | X | S | 150-5271 | 8051 Sample Malrix Soil (S), Sludge (SL), Aqueous (A) O Received by Laboratory (signature) Received by (signature) ☐ Immediate Attention ☐ Rush 24-48 Hours Time Rush 72-96 Hours Turn Around Requested: Company Company - Motifie Lab Normal Date Fullerton, CA 92635 Tel 714 449-9937 Fax 714 449-9685 Time Project Name Sougles Aircraft Project Address S. Mormandie Sample Location ENVIRONNIENTAL Testing laboratories OVTANCE O Retinqdished by (signature) Cilent Mances 19 B 16 19c 16 Sample ID Project Contact Сотрапу

ENVIRONMENTAL TESTING LABORATORIES

Tel 714 449-9937 Fax 714 449-9685

U. B. :/ Fullerton, CA 92635

CITENT (V) JAKES FANINGUMENTAL	70/04	4		(A)	Analysis Requested	ested) JEL	JEL Project #
Project Name	Client Project #			Snoanby				519
Project Address	Turn Around Requested:	sted:		(15)		\ \ \		€ 0
19503 S. Manuarois	Immediate Attention	Attention		to Bonis			Lab	Lab Use Only
TO RAGACE CA	Hush 24-48 Hours	Hours Hours		3 (5) 110		Ners		Sample Condition as Received:
Project Contact Scott Huther	Normal Mobile Lab			OF XINEW		DO CONTAI		Chilled □ yes □ no Sealed □ yes □ no
	Date	Time	Laboratory Sample Number	Pldwes		Number	Container/Comments	mments
7-87	1/194	10:25		> ×		d l	The City	1 14KS
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Tel. 714 449-9937 Fax 714 449-9685

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Tel. 714 449-9937 JO. JS ENVIRONMENTAL TESTING LABORATORIES

P.O. LUA 5387 Fullerton, CA 92635

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JO. LS ENVIRONMENTAL TESTING LABORATORIES

P.O. Box 5387 Fullerton, CA 92635

Tel. 714 449-9937 Fax 714 449-9685

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JOI J. S. ENVIRONMENTAL. TESTING LABORATORIES

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Chain-Of-Custody Record

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JONES ENVIRONMENTAL TESTING LABORATORIES

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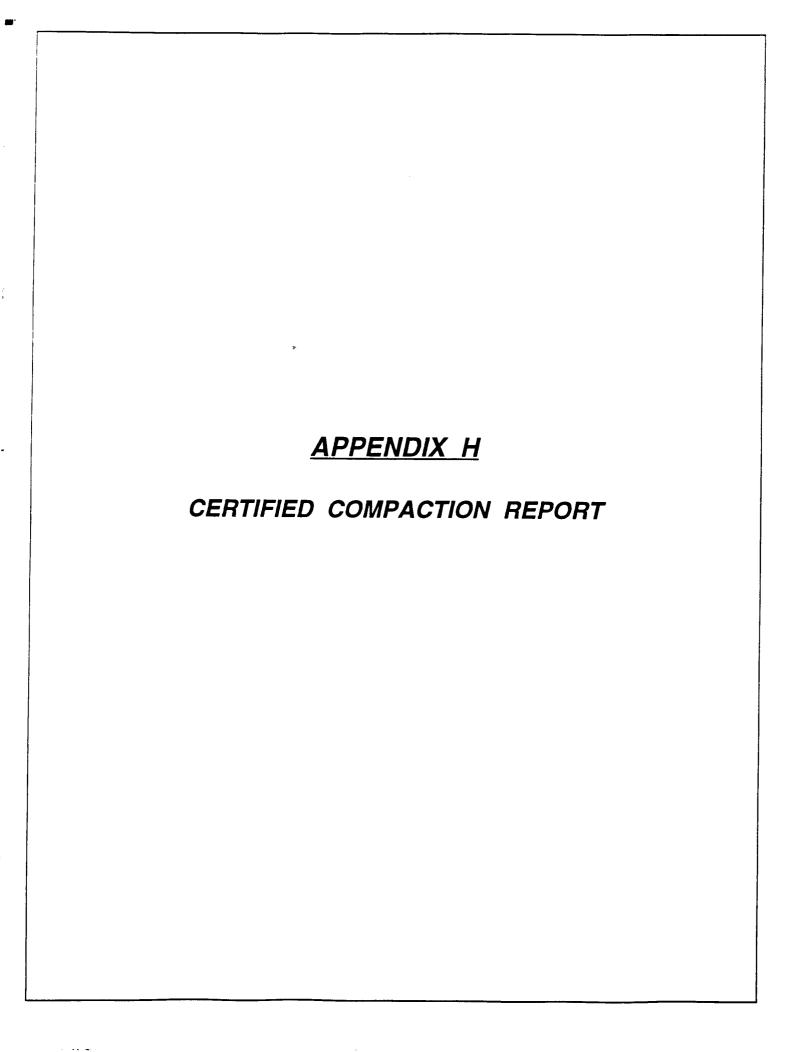
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Tel. 714 449-9937 Fax 714 449-9685

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NorCal Engineering

SOILS AND GEOTECHNICAL CONSULTANTS 10641 HUMBOLT STREET LOS ALAMITOS, CA 90720 (310) 799-9469 FAX (310) 799-9459

August 11, 1994

Project Number 4896-94

Maness Environmental Services 1101 E. Spring Street Long Beach, California 90807-0917

Re: Observation and Testing of Backfill Operations - Tank Excavation Backfills for McDonnell Douglas Facility - Building No. 1 - Located at 19503 South Normandie Avenue, in the City of Los Angeles, California

Dear Sirs:

Pursuant to your request, this firm has observed and tested backfill operations at the above referenced location. Results of compaction tests are attached and locations of these tests are shown on the accompanying plot plan. The excavation backfill meet secondary fill requirements for the support of floor slabs or pavement. All work was performed in accordance with all present day standards of the Soils Engineering Industry.

All demolition debris was removed from the fill area prior to the placement of any fill soils. The existing low density soils were removed to competent native soils, the exposed surface scarified, moisture conditioned and then recompacted to a minimum of 95% relative compaction. The bottom of the excavation was approved by this firm prior to placing backfill. The bottom of the excavations were about 15 and 20 feet below ground surface and backfilled with 8 to 10 feet of pea gravel. The fill soils and pea gravel were compacted to a minimum of 95% of the laboratory standard.

The relative compaction for the upper 8 feet of the fill soils was determined by Sand Cone Method (ASTM: D 1556-82) and by the Drive Tube Method (ASTM: D-2937). Relatively undisturbed samples of the pea gravel were obtained with a split spoon sampler with a rock catcher. The maximum density of the fill soils was obtained by the laboratory standard (ASTM:D 1557-78) and results are shown on Table I. Tests were performed a minimum of every 500 cubic yards placed and every 2 feet in depth of fill placed. A backhoe mounted vibratory plate was utilized for compaction control. A water hose provided moisture control. No chemical analysis was performed by NorCal Engineering on the tank excavation nor the backfill soils.

We appreciate this opportunity to be of service to you. If you have any further questions, please do not hesitate to contact the undersigned.

Respectfully submitted,

NORCAL ENGINEERING

Keith D. Tucker
Project Engineer

R.G.E. 841

2.~

Troy D. Norrell President

TABLE I MAXIMUM DENSITY TESTS (ASTM:D 1557-78)

Soil Type	Classification	Optimum <u>Moisture</u>	Maximum Dry Density (lbs./cu.ft.
l	SAND, fine grained, silty	12.0	118.0
II	Pea gravel	6.5	128.0
111	SAND, fine to coarse grained, slight silt content, slight clay content	9.5	126.0
IV	SAND, fine grained, silty	12.0	119.0
V	SAND, fine to coarse grained, slight clay content, gravelly pea gravel	10.0	123.0

TABLE II
COMPACTION TESTS RESULTS

Date of Test Excavation	Test <u>No.</u>	Depth *	Percent <u>Moisture</u>	Unit Wt. lbs./cu.ft.	Relative Compaction	Soil <u>Type</u>
7/19/94	101	15.0-15.5	13.1	112.3	95	1
7/19/94	102	13.0-13.5	5.5	106.2	97	11
7/19/94	103	11.0-11.5	4.8	104.0	95	П
7/19/94	104	9.0-9.5	4.7	106.8	97	11
7/20/94	105	7.0 - 7.5 ⁻	10.7	120.1	95	111
7/20/94	106	6.0-6.5	10.3	113.3	96	١V
7/20/94	107	4.0-4.5	10.9	100.9	84	IV
7/20/94	107A	** 4.0-4.5	12.3	115.2	95	IV
7/22/94	108	3.0-3.5	8.5	117.2	95	V
7/22/94	109	2.0-2.5	10.3	115.1	96	IV
7/22/94	110	0.0-0.5	11.8	113.6	95	IV -
Excavation	_2					
7/22/94	111	20.0-20.5	13.7	112.3	95	1
7/22/94	112	18.0-18.5	5.2	122.8	96	11
7/22/94	113	16.0-16.5	5.4	121.7	95	II
7/22/94	114	14.0-14.5	4.9	124.0	97	II
7/22/94	115	12.0-12.5	4.8	123.2	96	II
7/22/94	116	10.0-10.5	5.4	104.9	96	11
7/22/94	117	8.0-8.5	5.4	103.8	95	H
7/22/94	118	6.0-6.5	5.0	106.2	97	Н

NorCal Engineering

^{*} Depth below finish grade (in feet)

^{**} Retest of failing tests after area reworked

TABLE II

COMPACTION TESTS RESULTS

Date of Test Excavation	Test No.	Depth *	Percent <u>Moisture</u>	Unit Wt. lbs./cu.ft.	Relative Compaction	Soil <u>Type</u>
7/22/94	119	5.0-5.5	5.3	105.3	96	
7/28/94	120	6.0-6.5	9.4	120.1	95	111
7/28/94	121	4.0-4.5	9.7	121.7	95	11
7/28/94	122	2.0-2.5	10.1	121.9	95	11
7/28/94	123	1.0-1.5	10.4	100 1	0.5	п
	123	1.0-1.5	10.4	122.1	95	П
8/3/94	124	0.0-0.5	8.7	121.8	95	11

^{*} Depth below finish grade (in feet)

^{**} Retest of failing tests after area reworked

BUILDING 1

STORAGE AREA

APPROXIMATE LOCATION OF TANK EXCAVATION BACKFILL

DOUGLAS AIRCRAFT FACILITY

NOT TO SCALE

NorCal Engineering SOILS AND GEOTECHNICAL CONSULTANTS

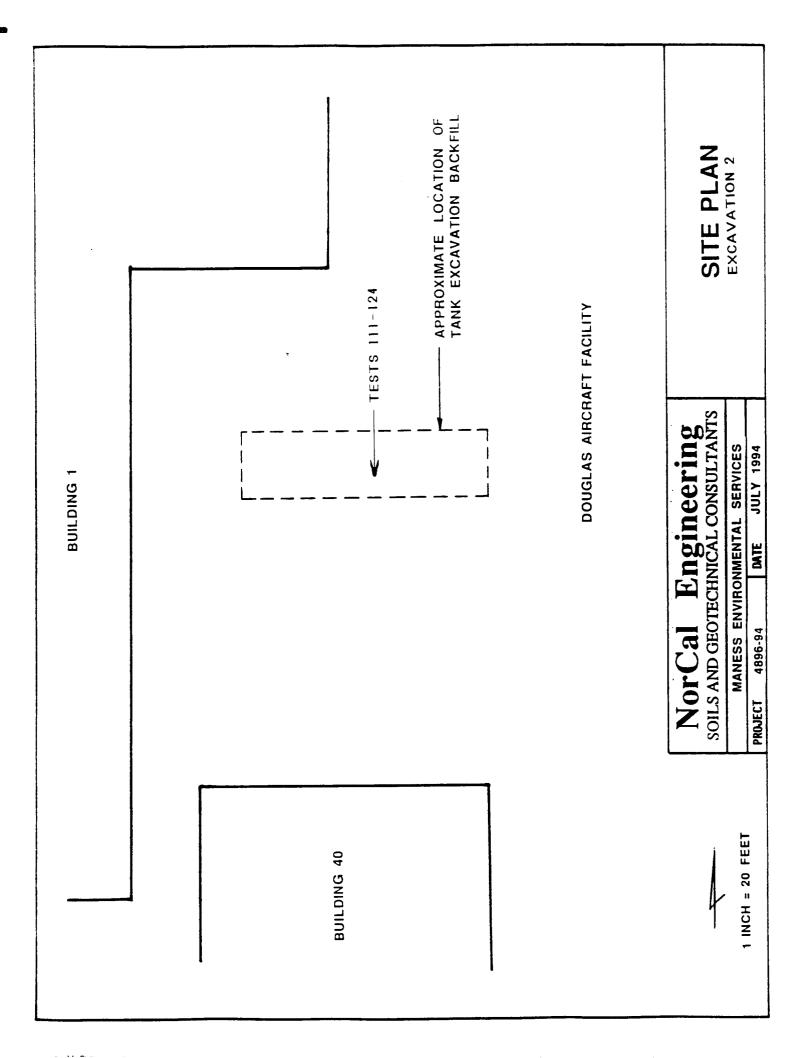
MANESS ENVIRONMENTAL SERVICES

PROJECT 4898-94

DATE JULY, 1994

SITE PLAN

EXCAVATION 1



CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY ENGINEER'S CERTIFICATE OF COMPLIANCE FOR COMPACTED EARTH FILLS

JOB ADDRESS: 19503 South Normandie Avenue, Los Angeles

SOIL TESTING AGENCY: NorCal Engineering

PROPERTY OWNER'S NAME: McDonnell Douglas Corporation

OWNER'S ADDRESS: 19503 South Normandie Avenue

Los Angeles, California

PER REPORTS ON OUR PROJECT NUMBER: 4896-94

DATE WORK STARTED ON PROJECT: 7/19/94

DATE FILL WAS COMPLETED: 8/3/94

DATE OF THIS CERTIFICATE: 8/11/94

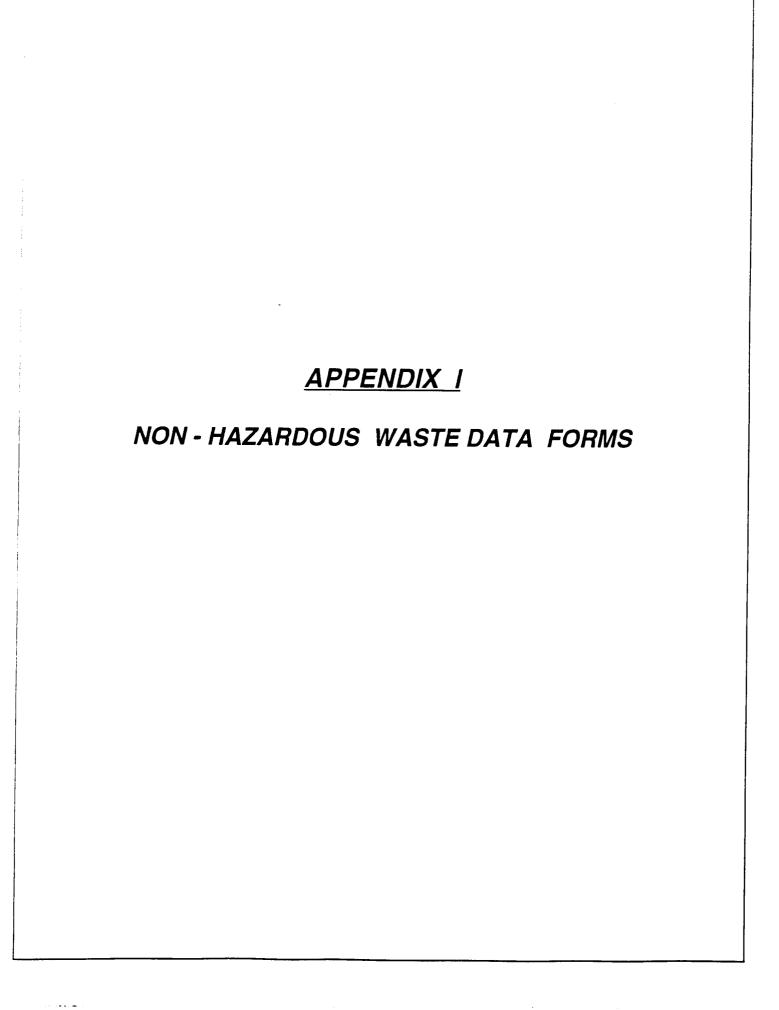
TO THE SUPERINTENDENT OF BUILDING:

I hereby certify that I have personally inspected and tested the placing of compacted earth fill on the above described property, and on the basis of these inspections and tests it is my opinion that the same was placed in conformation requirements of the Los Angeles City Building Code.

Keith D. Tucker

R.G.E. 841

* For the purpose of this certificate, to have "personally inspected and testing performed by any person responsible to the engineer signing this certificate. Where the inspection and testing of all or part of the work above is delegated, full responsibility shall be assumed by the licensed engineer whose signature is affixed thereon.



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Page 1

stomer Name: : DOUGLAS AIRCRAFT

 07-01-94
 08-04-94

 3-porting FROM:
 00:00
 TO: 23:59

DATE : 08-04-94

TIME : 10:19:32

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7000	print or type.	TPS NUN	155,C	- WYU		VII WILD		

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	Sand I Organic I Clay I Other I	0 - 10%	Gas 🗔 Diesel 🗔 Other 🗔					(21.
	List any exception to items listed above	2:							
i I	Generator's and/or consultan Data Sheet completed and ce alter it in any way.	it's certification: rtified by me/us f	I/We certify that to for the Generation	he soil reference Site shown abo	ed herein is ve and noth	taken entirel hing has been	y from those soils added or done to s	described in such soil that	the Soil would
	Print or Type Name: Robert G	Generator X	Consultant	Signature a	nd date:	B. T.	noll. Ch.	Month 7	Day Year 2 9 4
>	Transporter's certification: l/ condition as when received. L without off-loading, adding t	We further certi	fy that this soil is l	being directly t	ransnorted	y that such so from the Gen	oil is hainh daliman	ed in exactly Designated I	the same acility
Trams	Print or Type Name:			Signature		ite.	·	Month	Dav Year
	ESTEL M ^C MA Discrepancies:	SIER			INC)	MI		UTE	174
acility									
111. F	Recycling Facility certifies the	receipt of the so	il covered by this i	nanifest except	as noted al	bove:		····	
Recycling Facility	Print or Type Name:			Signature an	d date:) (<u></u>	
	print or type.	**************************************	TPS NUM	La	NO	Es Ca	lemen	4 7- :	37-99

	Manifest	T	PS Techno	logies So 1-Hazardous S	il Rec	ycling	₹ Mani	fest # 4	- <u> </u>
	1	No.		Transporter Emick	#	B3	· · · · · · · · · · · · · · · · · · ·		Load #
	DOUGLAS AIR CRAFT DEPARTMENT C1-710 3855 LAKEWOOD BLV LONG BEACH, CA. 9	COMPANY , MC 127		_3		33-792	3158	77 . 700	<i>V09</i>
	SITE ADDRESS: 1950	wess mental S		ANCE		- 95-4555		<u>.</u>	
	1101 E. Spring Long Beach, CA				nend C)kuda -	st Mark at	ant Number	
ant	n a la come e sa compagner e en			<u> </u>	n. 2	_			
Consultant			ŧ				120 120,008		
	Designated of class of the second	deres de la seconda		"Active) Phone ≠	-	Facility Jorn	II Numbers	
or and	TPS Technologie 12328 Hibiscus			[50H	o Contact:	2-8001 rtlett		- vanters	
Generator and/or	Adelanto, Calif	-		6-8004	,				
- Ge	Propsporter Name and Marine Address: Maness Environmental Srvcs Inc. 1101 E. Spring Street					5-4555		US EPA ID No	
	Long Beach, CA	F.\k=)	kuda 	Customer Acc	ount Number	with TPS		
	Date into pf Soil Mot	date Content	Contaminated by	Approx. Oty:	Deec	ori of Delivery	Gross Weight		(New York)
	Clav	10%	Gas ☐ Diesel ☐ Other ☐ Gas ☐	22 t			8780C	30450	575
	Clav J Other J 10	- 20% ¬ % - over ¬	Diesei J Other J		7014				56.1
	Generator's and/or consultant's Data Sheet completed and certif alter it in any way.	certification: fied by me/us	: I/We certify that t for the Generation	he soil reference Site shown abo	d herein is ve and noth	taken entirel iing has been	y from those soils added or done to s	described in such soil that	the Soil would
	Print or Type Name: GRobert G	enerator 7	Consultant J	Signature a	date:	+ 6.0	Twoll Q	Month 7 2	Day Year 7 94
Transporter	Transporter's certification: I/We condition as when received. I/W without off-loading, adding to,	le further certi	fy that this soil is	being directly to	ansported	from the Gene	il is being delivere eration Site to the	ed in exactly Designated l	the same Facility
Trai	Print of Type Name: N'CKE Discrepancies.			Signature at	1 114			077	7 94
Recycling Facility	Conceptibles.			Í					
cling t	Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above: Print or Type Name: Signature and date:								
Recy	A STATE OF THE STA				i date: 'MC	Che	men	7-5	7-91
10050	print or type.	Mary Mary	TPS NU	MERICAL O		10000000000000000000000000000000000000			

	Manifest	TPS Techno	ologi on-Haza	es Sc Irdous S	il Recy	vcling	Manii	est #	on the r			
	Date of Shipment: 07 - 27 94		Transpor	rter Frank	a	23	3158		Load *			
	DOUGLAS AIR CRAFT COMP. DEPARTMENT C1-710, MC		<u> </u>	3	1053	3-792						
	3855 LAKEWOOD BLVD. LONG BEACH, CA. 90846 SITE ADDRESS: 19503 S. N	ORMANDIE TORR	ANCE	100				ine in major				
	Maness Environmenta 1101 E. Spring Stre		÷.	(3		5-45 5 5		those soils described in the Soil or done to such soil that would Month Day Year of Aging delivered in exactly the same				
1:	Long Beach, CA 908	90 7		KIC	hard o	- -		mt Nome +	N et 178			
ant	Cephragion Service (September 2014)		·	1-7	=,		i i					
Generator and/or Consultant		=			t v likt				Š			
r Col				* \(\big(\pi \))		V1 () VV () S					
)/pue	TPS Technologies In 12328 Hibiscus Aven		_	(8)		2-8001	naciati Permi	t Numbers	हैं कि के कि क्रिक्ट के क्रिक्ट क्रिक्ट			
ator a					en Bai							
ener	Adelanto, Californi	T			6-8004							
U	Transporter Name and Manine Address: Maness Environmenta 1101 E. Spring Stre		•			5-4 5 55		nsporter's US EPA ID No.: Insporter's DOT No.: Itomer Account Number with ITS:				
					nard Ol	kuda	Transporter's	DOT No.:				
	Long Beach, CA 908		(∂A ≬ ≈:) —			Customer Acc	vith IPS:					
	Description of Soil Moleture Co	ritent - Contaminated L	7 Join	ox: Qty:	Description	on of Delivery	Gross Weight		EL Wast			
	Clay 10 - 20% 20% - over	Diesel D	27	27			81740	30050	5166			
		Diesel 🗓							25 K			
	Generator's and/or consultant's certific Data Sheet completed and certified by n	ation: I/We certify tha ne/us for the Generatio	t the soil on Site sh	referenc	ed herein is	taken entirel iing has been	y from those soils added or done to s	described in s	the Soil			
	Print or Type Name: Robert Generator Generator	Consultant	7- 1	Signature a	and date:	Bo	TenOI a	Month 2	Day Year 94			
Transporter	Transporter's certification: I/We acknown condition as when received. I/We furthe without off-loading, adding to, subtract	vledge receipt of the so r certify that this soil	is being a	lirectly t	ransported)	from the Gen	oil is being deliver eration Site to the	ed in exactly Designated I	the same acility			
Tran	Print Tipe Name: ON U	erreru		Signature a	nd date:	Sa	Ше	2 07 2	794			
Facility	Distrepancies:	,		<	J 							
Recycling	Recycling Facility certifies the receipt of Print or Type Name:	the soil covered by th		st except		bove:						
Recy	Com or type rame.	-		Ja	nul.	1 06	next-	7-27-2	51/			
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	Manifest	TPS Technol	lOg16 i-Haza	es Soil irdous Soils	Recycli s	ing	4 Ment	fest#	
	Oate of Shipment: 07-27-94	r	ranspor	rter Truk #	ξ1.	3 			Load #
	DOUGLAS AIR CRAFT COMPA DEPARTMENT C1-710, MC 1 3855 LAKEWOOD BLVD. LONG BEACH, CA. 90846	27-10		310	, 533-	3	3158	an Number	1011
and the second second	SITE ADDRESS: 19503 S. NO Maness Environmental 1101 E. Spring Stree	Srves Inc.) 595-4				
	Long Beach, CA 9080	7		(° =)) -			nit Nameer	rsith IPs
Consultant		•		1)		STA STAN		
and/or	TPS Technologies Inc	• e	<u> </u>	Darren	962-8 9 Bartl	ett	Figure Corm	it Numpers	-
— Generator	Adelanto, California Leggerer Name and Maning Address Maness Environmental 1101 E. Spring Stree		fromsporters (310)	246-8 \$95-4	555	Transporter's	US EPA ID No.		
	Long Beach, CA 9080		£7 /¢ =:)			Customer Account Number with			
	Description of Soll Moisture Confe	ent Conteminated by:	Appro	ox. Qty: De	ed residen of I	Delivery	Gross Welgig	Ta Visit	PANAL .
	Sand Organic	Gas J Diesel J Other S	2:	2 <i>t</i>				30480	4570
	Sand I Organic I 0 - 10% I Clay I Other I 10 - 20% I 20% - over I List any exception to items listed above:	Gas 및 Diesel 및 Other 및							84.8
	Generator's and/or consultant's certificati Data Sheet completed and certified by mei alter it in any way.	on: I/We certify that thus for the Generation!	he soil : Site shu	referenced he own above as	erein is taken nd nothing h	entirely fro as been add	om those soils ed or done to s	described in t	he Soil would
	Print or Type Name: Robert G. T	Consultant J	S	Signature and dal	te f.	Tua	el. On	07/2	Day Year 94
Transporter	Transporter's certification: I/We acknowle condition as when received. I/We further c without off-loading, adding to, subtractin	ertify that this soil is b	being di	irectly transi	ported from t	such soil is the Generati	being delivered ion Site to the	ed in exactly i Designated F	the same acility
Iran	Print or Type Name: CHarLes WILLS	02	S	Signature and dat	les We	ille		07 2	Day Year 94
Recycling Facility	Discrepancies: Recycling Facility certifies the receipt of th	es sail conseed by this s		-^ consent as u	- And Alegan				
Recyclin	Print or Type Name:	e soil covered by this n		ignature and date		Xen	en	7-27	7_56
loase	print or type.	TPS NUM		CALCOR		- ne Torig	2 TO 22 P		

	Manifest	TPS Techno	logies S n-Hazardous	oil Rec	ycling -	I Manif	est# #					
	Date of Shipment 07 ZF 94		Transporter fruc	k #*	03	3158		Load # 7				
	DOUGLAS AIR CRAFT COMP DEPARTMENT C1-710, MC 3855 LAKEWOOD BLVD.		(<	3/0,53	?3- 79 2							
	LONG BEACH, CA. 90846 SITE ADDRESS: 19503 S.	NORMANDIE TORR			-							
	Maness Environmenta 1101 E. Spring Stre			·	5-4 5 55							
			!	Rīchard Okuda								
	Long Beach, CA 908	10/7	; - \ \$-	(1997) — Some Solum Somerwith I'S								
tant	and the second s		T.C.	, , , , , , , , , , , , , , , , , , ,		4						
Consultant		•		2000 1148		1 80		4				
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and/or	TPS Technologies In		Facilit (É	186 ° (88)	2-8001	Facuity Jermi	t Numbers					
	12328 Hibiscus Aven	ue	Dar	ren Ba	rtlett							
Generator	Adelanto, Californi	a 923 0 1	6-8004	-	· · · · · · · · · · · · · · · · · · ·							
Ge	Transporter Name and Mailing Address: Maness Environmenta	Fransı (3	porter's Phone (10) 59		Fransporter's	ÚS EPA ID No.						
	1101 E. Spring Stre	et	RTE	หลักเล่ะเอ	lkuda	Transporter's	Transporter's DOT No.:					
	Long Beach, CA 908	FA ≮ #:)	-	Castomer Account Number with TPS:							
	Description of Solet Moleture Co	Contament	Approx. Qty.	Descript	ion of Delivery	Gross Weight		TOWAY.				
	Sand Organic 0 - 10% Clav 0ther 10 - 20% 20% - over	Gas Diesel DO Other	224			8000	37X6	Y780				
		Gas						23.				
	List any exception to items listed above:											
	Generator's and/or consultant's certific Data Sheet completed and certified by n alter it in any way.	ation: I/We certify that in nelus for the Generation	the soil referen Site shown ab	ced herein is ove and not	taken entirel hing has been	y from those soils added or done to s	described in t such soil that	the Soil would				
	Print or Type Name: Robert G. T	Consultant J	Signature	date:	+ 60	Turll (2 107 Z	Pay Year 7 94				
Transporter	Transporter's certification: I/We acknown condition as when received. I/We furthe without off-loading, adding to, subtract	wledge receipt of the soil r certify that this soil is	being directly	transported	from the Gen	oil is being delivere eration Site to the	ed in exactly Designated I	the same acility				
	Print or Type Name: HAL WHLIN	16-ETP	Signature	and date	Holl-		7 07 Z	Pay Year 94				
Recycling Facility	Discrepancies:											
/cling	Recycling Facility certifies the receipt of Print or Type Name:	the soil covered by this	manifest excep		ibove:							
Recy	·		A	and	a Ca	ement	7-27	7-54				

	Manifest	TPS Techno	logies So	oil Rec	ycling	↓ Manif	est##	· <u>.</u>	
	Date of Shipment: 07 77 94	<u> </u>	Transporter Trucs		9.3	3158	***************************************	Load = 01/3	
	DOUGLAS AIR CRAFT COM DEPARTMENT C1-710, MC 3855 LAKEWOOD BLVD. LONG BEACH, CA. 90846 SITE ADDRESS: 19503 S.	127-10	ANCE				er Normage		
	manus Came no Aming Codiese Maness Environment 1101 E. Spring Str	al Srves Inc.	. (3	ontschere 10) 59 recenter hand O	5-4555				
	Long Beach, CA 90	9 07	<u></u>)	-	et myste.	2 July 2 mour	with 115	
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Consultant	g g	÷	,)		Lignors ANG			
	Designated receive fransport to the control of the Common	###* 10•		iihone≕ 20) 86	2-8001	f evers cacility Permi	t Numbers		
Generator and/or	12328 Hibiscus Aver			io Contacti n en Ba	rtlett				
senera	Adelanto, Californ: Transporter Name and Mailing Address: Maness Environmenta			6-8 004	Fransporters	Fransporter's US EPA ID No.:			
.	Maness Environmenta 1101 E. Spring Stre		10) 59	5-4555 kuda	,	Transporter's DOT No.:			
	Long Beach, CA 908	FAX#	FAK=) — Customer Account Numb						
1	Complete Control Control Control	ontent Contaminated by	Approx. Oty:	Descript	on of Delivery	Gross Weight		with TPS	
	Sand Organic □ 0 - 10% Clav □ Other □ 10 - 20% 20% - over 20% - over Sand □ Organic □ 0 - 10%	Gas 3	Z2t			76160	25040	4712	
	Clav Cher Cher Clav Clav Clav Clav Clav Clav Clav Clav	Diesel Di						93.16	
	Generator's and/or consultant's certification Data Sheet completed and certified by alter it in any way.	cation: I/We certify that me/us for the Generation	the soil reference Site shown abo	ed herein is	taken entirely hing has been a	from those soils added or done to s	described in such soil that	the Soil t would	
	Print or Type Name: Generator Robert G.	Fuell, Jy	Signature	and date:	GJu	D. Jr.	Month 7	Day Year 27 94	
Transporter	Transporter's certification: I/We acknown condition as when received. I/We furth without off-loading, adding to, subtra	er certify that this soil is	being directly	ransported	from the Gene	il is being deliver ration Site to the	ed in exactly Designated i	the same Facility	
Tran	Print or Type Name: Kenneth Pra	·>7e	Monantre .	and date:	2		07 Z	Day Year	
Recycling Facility	Discrepancies:								
ycling	Recycling Facility certifies the receipt of Print or Type Name:	of the soil covered by this	Signature a		bove:				
	print or type.	W-C.	IMERICAL C	ind	g le	ment	7-21	1-54	

	Manifest	TPS Techno	ologi	es So ardous S	il Rec	ycling	↓ Manif	est# +						
_	Date or Shipment:			rter Thick		┯┵	374.7		t Nig.	7				
	07 77 94		: tanspur	CIET . ACK	•	03			10ad #	4				
	DOUGLAS AIR CRAFT CO DEPARTMENT C1-710, M 3855 LAKEWOOD BLVD.			_3	10 53	3-792	31 58 '6		<u> </u>					
	LONG BEACH, CA. 9084 SITE ADDRESS: 19503 S.	6 NORMANDIE TORR	ANCE	· ·	,				ga May					
	Maness Environment 1101 E. Spring St		`•	(31		5-4555								
	Long Seach, CA 9			Rich	neorber Nard E)kuda		· unt Number	The Tree	1				
		500 T		_		_	E.T.	G. T. Number]				
Consultant				1 2 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	To make	-4		-10		-				
onsu		•		= \ (=)	·-	Lends V.O.			-				
	TPS Technologies	<u> </u>		Facility	hane =		Facility Jermi	st Numbers		4.				
and/or	12328 Hibiscus Av					2-8001 rtlett				-				
Generator	Adelanto, Califori	nia 92 30 1				6-8004				1				
Gen	1		•	Tropsyq	1817 PH319	5-4555	Fransporter's	rtet's US EPA ID No.:						
	1101 E. Spring Str			RTCH	ard o	kuda	Transporter's	DOT No.:	at					
	Long Beach, CA 90	807		FA K #	>	-	Customer Acc	ount Number	with TPS:	Sandard Charles				
	Description of Soil Moisture	Content Companionated b	n App	ottay	Descrip	on of Delivery	Groes Weight	TARRES	Net Weight					
	Sand Organic	er 🔳 Other	22	2+			06797	30620	4910	þ				
	Sand								24.	5				
	List any exception to items listed above:		<u> </u>											
	Generator's and/or consultant's cert Data Sheet completed and certified b alter it in any way.	fication: I/We certify that y me/us for the Generatio	t the soil on Site sh	l reference 10wn abo	d herein is ve and not	taken entirely hing has been a	from those soils idded or done to	described in such soil that	the Soil would					
	Print or Type Name: Generat	Consultant UEII Jr.	- ·	Signatura	nd date:	G. Tr	ell.a.	OF Z	7 94					
Transporter	Transporter's certification: I/We ack condition as when received. I/We fur without off-loading, adding to, subti	ther certify that this soil i	is being a	directly to	ansported	from the Gene	il is being deliver ration Site to the	ed in exactly Designated l	the same Facility					
Tram	Print or Type Name: OWAYNA SAKA	4x+		Signature at	nd date:	Say	g	07 7	77 94					
Facility	Discrepancies:				-	j			· :					
ing	Recycling Facility certifies the receip	of the soil covered by thi	is manife	est except	as noted a	bove:								
Recycling	Print or Type Name:			Signature an	d date:	× (%0	mes	7-0	7 ,-SG					
	e print or tribe.	TRO NE	1	~ ~) Leenus	Now things a		10.00	l -				

	Manifest	TPS Technolo	Ogies 50 Hazardous S		ycling	! Manif	est#.l	
Γ	Date or Shipment: 1		insporter Truck		93			Load #
	77 1	, +	903 =	+0/	,,,,	3158		177
	DOUGLAS AIR CRAFT CON DEPARTMENT C1-710, M 3855 LAKEWOOD BLVD.							
	LONG BEACH, CA. 9084 SITE ADDRESS: 19503 S.		CE	7			it's neer	ertp IPS
	Maness Environmen		(3		; 5-4555			
	1101 E. Spring St	neet		nand C	lkuda			
	Long Beach, CA 90	2807	£ *)	_	1 July 1990 1990 1990	Tunt Number	vith 105
tant	a ta a ta a sa a ta a ta a ta a ta a ta			:		Total Section 1		
Consultant			i L			tieves .		
			· \$ =-)	***	AVC. Lecels		
and/or	respondent and the point. TPS Technologies :	Inc.			2-8001	Facility Dermi	t Numbers	
or a	12328 Hibisous Ave	enne		o Contact: Pen Ba	rtlett			
Generator	Adelanto, Californ	nia 923 0 1	(6)	19) 24	6-8004		,	a.*
Ge	Maness Environmental Srvcs Inc.			Transporter's Conne # (310) 595-4555				,
	1101 E. Spring Street			o Compari S ard C	lkuda	Transporter s	DOT No.:	
	Long Beach, CA 90	1807	F-4(#))	**	Customer Acc	ount Number v	vith TPS:
	Description of Soil	Contain Sorbaganiased by:	Approxicaty:	Descrip	ion of Calven	Gross Weight		Weight
	Sand Organic □ 0 - 10% Clav □ Other □ 10 - 20% 20% - 0v 20% - 0v	er J Other	ZZt			78446	37000	41380
	Sand I Organic I 0 - 10% Clay I Other I 10 - 20% 20% - ov							20.6
	List any exception to items listed above:							
	Generator's and/or consultant's certi Data Sheet completed and certified b alter it in any way.	ification: I/We certify that th ry me/us for the Generation S	e soil referenc ite shown abo	ed herein is we and not	s taken entire hing has been	ly from those soils 1 added or done to !	described in t such soil that	he Soil would
	Print or Type Name: General Robert G. 7	Consultant I	Signature a	and date:	B. T.	well O	. 07 Z	7 94
Transporter	Transporter's certification: I/We ack condition as when received. I/We fur without off-loading, adding to, subtr	ther certify that this soil is b	eing directly t	ransported	from the Gen	soil is being deliver, neration file to the	ed in exactly Designated F	the same acility
Tran	Programe MARIS	col	Signature a	nd date:	Mon	oce	Month	Day Year 57 GY
Facility	Discrepancies:	·						
	Recycling Facility certifies the receip	t of the soil covered by this n			ıbove:			
Recycling	Print or Type Name:		Signature a	nd date:		Lomas	£ >	375
Please	print or type.	TPS NUM	153:03 0					

	Manifest	TPS Techr	nologi Non-Haza	es So ardous S	il Rec	ycling	, • Manif	lest# 1			
	Date or Shipment: 0 7 728 74		Transpo	rter Truck	.	Ø3	3158		Load #		
	DOUGLAS AIR CRAFT CO DEPARTMENT C1-710, M 3855 LAKEWOOD BLVD. LONG BEACH, CA. 9084	1C 127-10									
	SITE ADDRESS: 19503 S.	NORMANDIE TOR		200-0	iant s Phone			·			
	Maness Environment 1101 E. Spring Str	=	ic.	(3	10) 59	5-4555					
	Long Beach, CA 90	1807		K1C	o Corper Dard C	Okuda —	2.05 - 250	z ant Number	sym 108		
	and a complete School Company of the Company				•		电路				
Consultant) tirk intoxti	·	11.00				
onsn		-		· \ (= ·	· · · · · · · · · · · · · · · · · · ·		ACCOUNTS				
	Description engine l'engagner de l'engagner				·		Corne				
and/or	TPS Technologies I 12328 Hibiscus Ave					2-8001	racaty Cerm	tt Numbers →			
ator				L		rtlett					
Generator	Adelanto, Californ					6-8004		Fransporter - US EPA ID No.:			
- G	Manes's Environment 1101 E. Spring Str	c.			5-4555			•••			
				Richard Okuda			Fransporter's	DOT No.:	with TPS:		
	,	807		FA(***) —			Customer Acc	Customer Account Number with TPS:			
	Description of Sol	Configuration	by: Appr	OZ Ory:	Descrip	Delivery	Gross Weight		Hel Weight		
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	Clay 3 Other 3 10 - 20% 20% - ove	Diesel D							24.4		
	List any exception to items listed above:										
	Generator's and/or consultant's certif Data Sheet completed and certified by alter it in any way.	ication: I/We certify th melus for the Generat	nat the soil tion Site sh	l reference sown abo	ed herein is ve and notl	taken entirely hing has been i	I from those soils added or done to s	such soil that	the Soil would		
	Print or Type Name: Generator Robert G	Tuell, Jr	-,	Signature a	nd date:	1. Tue	el. G.	07	Year 94		
Transporter	Transporter's certification: I/We ackn condition as when received. I/We furt without off-loading, adding to, subtra	her certify that this soi	il is being a	lirectly t	ransported	y that such so from the Gene	il is being deliver	ed in exactly Designated I	the same acility		
Tran	Print of Type Name: CHOHES WILLSON				ad date:	Lillen		Month 07	Pay Year		
Recycling Facility	Discrepancies:										
cling	Recycling Facility certifies the receipt				bove:						
Яесу	Print or Type Name:			Signature at	d date:	x C	Lemon	{ 7 }	F-54		
10000	print or type.	TPSA	JUMERIO		727	18320					

Manifest	No	ologies Soil R on-Hazardous Soils	ccycinis	Manifest # 1
Date of Shipment: 0 7 - 28 - 94		Fransporter Truck #	อร	3158 Load #
DOUGLAS AIR CRAFT CON DEPARTMENT C1-710, MG 3855 LAKEWOOD BLVD. LONG BEACH, CA. 90846 SITE ADDRESS: 19503 S.	C 127-10	RANCE &	-	
Maness Environment			-cne = 595-45 5 5	
1101 E. Spring Str	eet	reon re Com Richard		
Long Beach, CA 90	1807	()		Customer 10 on Number with US
Den seem Ang Transperson in se	13.75	Sign of my and a sign of the s		neth Amis
			dx T	TOPE Lovers
	•	1. (A.m.)	_	ACC conces
Designated Facility (ronsport to 100 or TPS Technologies I	ne.	Ficility Phone (800)	862-8001	Faculty Permit Numbers
12328 Hibiscus Ave		Person to Cont Darren	act: Bartlett	
Adelanto, Californ	nia 923 0 1	(619)	246-8004	
Transporter Name and Maning Address: Maness Environment		[ransporters (310)	hone #: 595 -4555	Transporter's US EPA ID No.:
1101 E. Spring Str	'eet	Richard	i ^{ct} Okuda	Transporter's DOT No.:
Long Beach, CA 90	1807	FA ((#:)	-	Customer Account Number with TPS:
Moistur	Contempos	Approx	cription of Delivery	Gross Weight Tage Weight
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Sand	_			(23.
Generator's and/or consultant's certing Data Sheet completed and certified by alter it in any way.	ification: I/We certify th ny melus for the Generati	at the soil referenced her ion Site shown above an	ein is taken entire d nothing has beer	ely from those soils described in the Soil n added or done to such soil that would 201-28-9
Print of type Name: General Robert G	Consultant	Signature and dat	ent les	Month Say Year 94
Transporter's certification: I/We ack	ther certify that this so i	l is being directly transp	orted from the Gei	soil is being delivered in exactly the same neration Site to the Designated Facility
Print or Type Name: 6W	RINERO	Signature and date	ul DI	1111 Day Sear
Discrepancies			,	,
Recycling Facility certifies the receip	t of the soil covered by t			
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	Manifest	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	logies Soil Red n-Hazardous Soils	ycinig [[‡] Manifest	The state of the s
	Date of Shipment: 0 7 -28 - 94		Transporter Fruck #	Ø3	3158	Load
	DOUGLAS AIR CRAFT COME DEPARTMENT C1-710, MC 3855 LAKEWOOD BLVD. LONG BEACH, CA. 90846 SITE ADDRESS: 19503 S.	127-10	ANCE	-		
	Maness Environment	al Srves Inc.		95-45 5 5		
	1101 E. Spring Stre	et .	Richard	Okuda		
	Long Beach, CA 908	307	`.₹ =	_	ust mur vu num	r Number 1 to 178
аш	Antonomic to Segul Tegensey version in the con-	·	**************************************		* ***	
Consultant		÷	off some of the second			
			(2)		V. C. Levels	
ana/or	TPS Technologies Ir		= 10 miny Physic = 10 (8 0 0) 8 (62-8001	Facility Permit Nu	mbers
-	12328 Hibiscus Aver	ue	Darren B	artlett		
cileialui	Adelanto, California 92301		ं (६१३) ट	46-8004		
ב כ	Manersumentvironmenta 1101 E. Spring Stre				Transporter's US E	
	· -		RTWN&PB ^{ct} (Dkuda	Transporter's DOT	
	Long Beach, CA 908		F.A (#:)	_	Customer Account	Number with TPS:
	Description of Soi	Gas 3	Descit		Gross Weight	
	Clav Other 10 - 20% 20% - over	Diesel Other	72t		77180 3	2000 45
	Sand	Gas				(23
	List any exception to items listed above:					
	Generator's and/or consultant's certific Data Sheet completed and certified by alter it in any way.	ation: I/We certify that ne/us for the Generation	the soil referenced herein in Site shown above and no	is taken entirel thing has been	y from those soils desc added or done to such	ribed in the Soil soil that would
I	Print or Type Name: Robert G, Tu	Consultant =	Signature and date:	hot	well a	Month Day 9
	Transporter's certification: I/We ackno condition as when received. I/We furth without off-loading, adding to, subtrac	er certify that this soil is	s being directly transporte	d from the Gen	oil is being delivered in eration Site to the Des	exactly the same
İ	Print or Type Name: HAL HULL /M	FER	Signature anattate:			Month Day 7
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	Manifest	TPS Techn	ion-Haza	dous Soils	ecycling	Man Man	lest # 1			
	Date of Shipment: 0 7 28 9 4	Responsible for Payment:	Transpor	er Truck #:	Facility#:	Given by TPS		Load		
	DOUGLAS AIR CRAP DEPARTMENT C1-71(3855 LAKEWOOD BLA LONG BEACH, CA	C COMPANY D, MC 127-10 VD.		Generator's Pho () Person to Conta FAX#.	~-	Generators	US EPA ID No.	with HS		
	Consultant's Name and Billing Ad	mental Srvcs Ind Street		Consultant's Phu	595-4555		ecount Number	with 115		
Consultant -	Consention Site (Transport from); (name (* address)		Site Phone #: () Person to Contac		BFTX Levels FPF Levels AVG. Levels				
tor and/or	Designated Facility (Immsport to): TPS Technologie 12328 Hibiscus		Facility Phone #: (800) 6 Person to Contac Darren E	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Facility Pern	iil Numbers				
- Generator	Adelanto, California 92301 Transporter Name and Mailing Address: Maness Environmental Srves Inc. 1101 E. Spring Street				one#: 595–4555	Transporter's	US EPA ID No.	:		
	Long Beach, CA	2.715	Person to Contact Rachard FAXII:	OMI No.:	with TPS					
·	Clay O Other C	-10%)" z	2+		80420	29420	77		
	List any exception to items listed above: Generator's andlor consultant Data Sheet completed and cert alter it in any way.	one of Other	on Site sho	referenced herein nun above and n ignaturgand state:	n is taken entire nothing has bee	ely from those soils nadded or done to	such soil that	the Soil toould go or- 2		
Transporter	Transporter's certification: IlW condition as when received: IlW without off-loading, adding to Print or Type Name:	Ne further certify that this soil, subtracting from or in any wa	is being di ay delaying	rectly transport	ted from the Ge	soil is being delive neration Site to the	C Designated F	the sam facility		
g Facility	Discrepances:									
Recycling	Recycling Facility certifies the Print or Type Name:	receipt of the soil covered by th		t except as notes	d above:	1.		N. Garage		

	Manifes	t TI	PS Techno	ologies S n-Hazardous	oil Re	cycling	I Manif	est##	٠. ټ	
	Date of Shipment: 07 728- 94	·		Transporter True		Ø3	3158		Load #	
	DOUGLAS AIR CRA DEPARTMENT C1-7 3855 LAKEWOOD BI LONG BEACH, CA. SITE ADDRESS: 195	10, MC 127 LVD.	-10	ANCE, CA)					
	msummis Name and Billing A Maness Environ		Grves Inc	. (3	. (ant - Phor 310) 5	595-4555	5			
	1101 E. Spring	-		:		Okuda		······································		
	Long Beach, Cf	· (¢=		. _		count Number	Viiii Too			
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Consultant			S				20,005			
				E.\ ¢ ≠			A', C' 1,6% e. 5			
and/or	TPS Technologi			(8		362-8001		it Numbers		
itor a	12328 Hibisous	s Avenue				Bartlett			e e	
Generator	Adelanto, California 92301				319) E	246-8 00 4				
Ü	fransporter Name and Mailing Address: Maness Environmental Srvcs Inc. 1101 E. Spring Street				Fransporter's Phone # Fransporter's US EPA ID N (310) 595-4555 Personate Contact: 1 Fransporter's DOT No.:				: 	
		RT	PAPEC	Okuda						
	Long Beach, CA 90807				:)	-	Customer Acc	count Number	with TPS:	
	Description Still	0 - 10%	Gas		200	iption of Delive	7 (see 5.516	Total Control	No Water	
	Clay 🗖 Other 🗇	10 - 20%	Gas Diesel Other	M 22 t			79660	30140	49570	
	Sand I Organic I Clay I Other I	0 - 10%	Diesel J Other J						74.46	
	List any exception to items listed above									
	Generator's and/or consulta Data Sheet completed and co alter it in any way.	nt's certification ertified by me/us	: I/We certify tha for the Generatio	it the soil refere on Site shown a	nced hereir bove and r	n is taken entir nothing has bed	en added or done to	described in such soil that PSG _{G-28-94}	would	
	Print or Type Name: Robert (Cenerator	Consultant (1e//)	Signatu	date:	the.	Tual (O7 2	94	
Transporter	Transporter's certification: l condition as when received. without off-loading, adding	I/We further cert	ify that this soil	is being directly	y transport	ted from the G	soil is being denver eneration Site to the	red in exactly e Designated i	the same Facility	
Tran	Prundor Type Name: / O	10210		Signatu	abu	I O	rozio	Month 7	Day Year 28 94.	
1 Facility	·					J. de const				
Recycling Facility	Recycling Facility certifies the Print or Type Name: Annt-N		APR REE	Samuel	ept as note	ea above:	iku	7/7	oky	
1000	e print or type.			UMERICAL	CCEV	2.0				

	Manifest	TPS Technolo	TPS Technologies Soil Recycling Non-Hazardous Soils		Manifest # 1		
	Date of Shipment: 07 -28 94	Tran	Transporter Fruck # (2.2)		3158	0 2 1	
Generator and/or Consultant	DOUGLAS AIR CRAFT COMPANY DEPARTMENT C1-710, MC 127-10 3855 LAKEWOOD BLVD. LONG BEACH, CA. 90846 SITE ADDRESS: 19503 S. NORMANDIE, TORRANCE,			3 -792 (
	Maness Environment 1101 E. Spring Str Long Beach, CA 90	Consultant's Phone	95-4555		int Number with IPS		
	estration and Consport to the	To a way to a money to	-	The same of the sa			
	TPS Technologies I 12328 Hibiscus Ave Adelanto, Californ	Cerson to Contact Darren Barren Barre	artlett	Facility Fermit N	, sumbers		
	Fransporter Name and Mailing Address: Maness Environmental Srvcs Inc. 1101 E. Spring Street Long Beach, CA 90807		Person to Contact: Richard (95-4555	Fransporter's US EPA ID No.: Fransporter's DOT No.: Customer Account Number with TPS		
	Sand Organic O-10% Clav Other Other O-10-20% Clav Other O-10-20% Clav Other O-10-20% Clav O-10-20% C	Gas Diesel Other TPM Gas Diesel Diesel Diesel Diesel	22 †	Spir of Delivery	Gross Weight	34.	
	Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way. Print or Type Name: Generator Consultant Signature and date: Robert Generator Consultant Signature and date: Robert Generator Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same						
Transporter	condition as when received. I/We further certify that this soil is being a without off-loading, adding to, subtracting from or in any way delayir		ing directly transported laying delivery to such	directly transported from the Generation Site to the Designated Facility			
Recycling Facility	Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above: Print or Type Name: Signature and date: Land Clamant 7-28-9						
	print or type.		ERICAL COPY	Ch Ch	UMUICI	1-01-1	

Manifest		TPS	TPS Technologies Soil Recycling Non-Hazardous Soils			• Manifest # •		
	Date of Shipment: 07 - 28-94	N. S. (1997)	Transporter Truck ≠ , Ø3		03	3158	Load # 0 2 2 3	
tant	DOUGLAS AIR CRAFT COMPANY DEPARTMENT C1-710, MC 127-10 3855 LAKEWOOD BLVD. LONG BEACH, CA. 90846 SITE ADDRESS: 19503 S. NORMANDIE TORRANCE		310 5	33 - 792 6				
			()	-		The second secon		
	Maness Environmental Srvcs Inc. 1101 E. Spring Street Long Beach, CA 90807		(310) 5	595-4555				
			Richard Okuda					
			· (C =) -		Customer Account Number with 108			
			The other is USETA Leaves					
Consultant			Prosent to the last		Let es			
and/or			F / ***)	_	AVG Levels			
	Designated Facility Transport ton Change & Julius See TPS Technologies Inc. 12328 Hibiscus Avenue Adelanto, California 92301			362-8001	Facility Permit	Vumbers		
			Person to Contac Darren E	Bartlett				
Generator			下(619) 2	246-8 00 4		S EPA ID No.:		
Ge	maness environmental Srvcs Inc.		Transporter - Pho (310) 5	ne =: 595-4555	Transporter's US EPA ID No.:			
	1101 E. Spring Street Long Beach, CA 90807		Person to Contact Richard	Okuda	Transporter's D	OT No.:		
			F.A (*#:) —		Customer Acco	Customer Account Number with TPS:		
	Lascription (Car			Lity: Desci		Gross Weight	The Weight	
	Clay Other I	- 10%	Gas Diesel Other	7+		64200	3172032400	
	Clav D Other D 10	- 10%	Gas 🖫 Diesel 🖳 Other 🖫		-		1636	
	List any exception to items listed above:							
	Generator's andlor consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.							
	Print or Type Name: Generator Consultant J Signature and sate: Robert G. Tuell, Jr. Robert G. Judl. Q. 107 28 94							
Transporter	Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.							
Trar	Print or Troe Name: AAL HULL INGER		Signature and Month Day Year O 28 94			Month Day Year		
Recycling Facility	Discrepancies:							
cling	Recycling Facility certifies the receipt of the soil covered by this manifest except or Type Name: Signature Signature				except as noted above:			
Recy	··			Lan	a Cl	emen-	7-28-54	
Year	print or type.	144	TPS NUMER	ICAL CCPY				

Manifest		TPS Technologies Soil Recycling Non-Hazardous Soils		cycling	I Manifest # I			
	Date or shipment: 1	τ	ransporter (ruck #)	23	3158	Lnag =		
or and/or Consultant	DOUGLAS AIR CRAFT COMPANY DEPARTMENT C1-710, MC 127-10 3855 LAKEWOOD BLVD. LONG BEACH, CA 90846 SITE ADDRESS: 19503 S. NORMANDIE TORRAN		310 , 533 -7926					
	Maness Environmental Srvcs Inc. 1101 E. Spring Street Long Beach, CA 90807		i se ngan ka ^{je} ern	95-4555				
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	TPS Technologies Inc. 12328 Hibiscus Avenue Adelanto, California 92301		(1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1		AFT Constant			
			Cerson to Contact Dannen Bo		Facility Permit Number	rs s		
enerator			^{€\} (619) 2	46-8004				
Ge —			<u></u>	fransporters ("hone = (310) 595-4555		Fransporter's US EP VID No.: 5 Transporter's DOT No.: 5		
			FA (#:)	FA K #:) —		Customer Account Number with TPS:		
	Description of Soil		Approx Qty: Descrip	Delvery	Gross Welgik			
	Clav	Other TA Gas Diesel	25+		80340 301	50,16 5T. G		
	Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.							
	Print of Type Name: Generator & Consultant I Signaturand date: B. Juell, G. Month, Day Year Robert G. 14ell, Jr. Robert B. Juell, G. 07 28 94							
Transporter	Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.							
#	Print or Type Name: MIGUEL GUERROR Signature and date: Month Day Month Day Discrepances:					128134		
₹ L	Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above: Print or Type Name: Signature and date:							
\perp	print or type.	TPS NIIA	JERICAL CORY	ch l	ement 7	-28-5		